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# Input Output

## Exercise

**Directions (Q. 1-5): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 41, 19, 218, 229, 317, 64, 107
**Step I:** 317, 19, 218, 229, 41, 64, 107
**Step II:** 317, 229, 19, 218, 41, 64, 107
These steps get repeated thereafter.

1. What will be the sixth step of the following input?
**Input:** 320, 211, 59, 68, 119, 158, 63
1) 59, 211, 320, 119, 68, 158, 63
2) 320, 211, 158, 119, 68, 59, 63
3) 320, 211, 158, 119, 68, 63, 59
4) Cannot be determined
5) None of these

2. The third step of a given input is 429, 340, 283, 167, 43, 69, 172, 117. What will be the input?
1) 43, 117, 167, 340, 429, 69, 172, 283
2) 167, 117, 43, 340, 429, 69, 172, 283
3) 43, 117, 167, 340, 429, 172, 69, 283
4) Cannot be determined
5) None of these

3. The third step of a given input is 574, 479, 153, 79, 354, 432, 106, 84. What will be step VII for the input?
1) 574, 479, 432, 354, 106, 153, 84, 79
2) 574, 479, 432, 354, 79, 153, 106, 84
3) 574, 479, 432, 354, 153, 106, 79, 84
4) 574, 479, 432, 354, 153, 106, 84, 79
5) None of these

4. In how many steps would the following input be fully arranged?
**Input:** 689, 722, 382, 184, 87, 67, 542, 326, 192
1) V 2) VI 3) VII 4) VIII 5) None of these

5. The second step of a given input is 907, 817, 312, 406, 68, 573, 42, 371, 22. What will be step V for the input?
1) 907, 817, 573, 406, 371, 312, 68, 42, 22
2) 907, 817, 573, 406, 371, 68, 312, 42, 22
3) 907, 817, 573, 406, 371, 42, 312, 68, 22
4) Cannot be determined 5) None of these

**Directions (Q. 6-12): Study the following information to answer the given questions.**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

**Input:** 46 185 310 436 96 217 39
**Step I:** 436 46 185 310 96 217 39
**Step II:** 436 39 46 185 310 96 217
**Step III:** 436 39 310 46 185 96 217
**Step IV:** 436 39 310 46 217 185 96
**Step V:** 436 39 310 46 217 96 185

This is the final arrangement and Step V is the last step for this input.

6. If 631, 29, 520, 474, 48, 312, 502, 36, 68 is the third step of an input, which of the following steps will be 631, 29, 520, 36, 502, 48, 474, 312, 68?
1) Sixth 2) Fifth 3) Seventh
4) Cannot be determined 5) None of these

7. Which of the following is the last step for the following input?
**Input:** 47, 432, 127, 52, 309, 87, 28, 116
1) 432, 28, 309, 52, 127, 47, 116, 87
2) 432, 28, 309, 47, 52, 127, 116, 87
3) 432, 28, 309, 47, 127, 52, 116, 87
4) 432, 28, 309, 47, 127, 116, 52, 87
5) None of these

8. Following is the step IV for an input. What will be the first step for the input?
**Step IV:** 726, 19, 537, 33, 412, 315, 115, 47, 81
1) 115, 47, 726, 19, 537, 33, 412, 315, 81
2) 537, 19, 726, 412, 33, 315, 115, 47, 81
3) 33, 412, 315, 726, 19, 537, 115, 47, 81
4) Cannot be determined
5) None of these

9. How many steps will be required to get the final output from the following input?
**Input:** 20, 105, 17, 37, 76, 121, 123, 41
1) 5 2) 6 3) 7 4) 8 5) None of these

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10. If following is the second step for an input, what will be the fourth step?
**Step II:** 317, 9, 217, 20, 226, 16, 115
1) 317, 9, 226, 20, 217, 16, 115
2) 317, 9, 226, 16, 217, 20, 115
3) 317, 9, 217, 20, 226, 16, 115
4) 317, 9, 226, 16, 115, 20, 217
5) None of these
11. What will be the third step for the following input?
**Input:** 17, 85, 102, 9, 119, 311, 13
1) 311, 9, 119, 17, 85, 102, 13
2) 311, 9, 119, 17, 102, 85, 13
3) 311, 9, 102, 17, 119, 85, 13
4) 311, 9, 102, 13, 119, 17, 85
5) None of these
12. What will be the second step for the following input?
**Input:** 727, 17, 548, 19, 348, 27, 402, 43.
1) 727, 19, 548, 17, 348, 27, 402, 43
2) 727, 17, 348, 548, 19, 27, 402, 43
3) 727, 348, 17, 19, 548, 27, 402, 43
4) Cannot be determined
5) None of these

**Directions (Q. 13-17): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 117, 84, 307, 36, 211, 59, 96, 186
**Step I:** 117, 84, 36, 211, 59, 96, 186, 307
**Step II:** 36, 117, 84, 211, 59, 96, 186, 307
**Step III:** 36, 117, 84, 59, 96, 186, 211, 307
**Step IV:** 36, 59, 117, 84, 96, 186, 211, 307
**Step V:** 36, 59, 84, 96, 117, 186, 211, 307

(This is the final arrangement and Step V is the last step for this input.)

13. How many steps will be required for getting the final output for the following input?
**Input:** 27, 112, 33, 105, 98, 12, 85
1) 4 2) 5 3) 6 4) 7 5) None of these
14. If following is the fifth step of an input, what will be the second step?
**Step V:** 17, 23, 97, 39, 107, 72, 182, 193, 239
1) 97, 17, 39, 23, 182, 107, 193, 72, 239
2) 23, 17, 107, 97, 39, 193, 72, 239, 182
3) 107, 23, 97, 39, 17, 72, 239, 193, 182
4) 193, 239, 23, 97, 39, 17, 72, 182, 107
5) Can't be determined
15. Which of the following will be the fourth step for the following input?
**Input:** 87, 102, 117, 31, 85, 158, 47, 162
1) 31, 47, 85, 87, 102, 117, 158, 162
2) 31, 47, 87, 85, 102, 117, 158, 162
3) 31, 87, 102, 85, 47, 117, 158, 162
4) 31, 47, 87, 102, 85, 117, 158, 162
5) None of these
16. If the third step for an input is as given below, what will be the fifth step for the same input?
**Step III:** 23, 105, 91, 36, 217, 43, 246, 265
1) 23, 36, 105, 91, 43, 217, 246, 265
2) 23, 36, 105, 91, 217, 43, 246, 265
3) 23, 36, 43, 105, 91, 217, 246, 265
4) 23, 36, 91, 105, 217, 43, 246, 265
5) None of these
17. What will be the last step for the following input?
**Input:** 47, 110, 321, 247, 68, 71, 119, 82
1) 47, 71, 68, 82, 110, 119, 247, 321
2) 47, 68, 71, 82, 119, 110, 247, 321
3) 47, 68, 71, 82, 110, 247, 119, 321
4) Can't be determined
5) None of these

**Directions (Q. 18-23): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input**, 27, 213, 309, 43, 89, 159, 275
**Step I**, 27, 213, 309, 159, 43, 89, 275
**Step II**, 27, 213, 89, 159, 309, 43, 275
**Step III**, 27, 309, 89, 159, 213, 43, 275
**Step IV**, 27, 43, 89, 159, 213, 309, 275
**Step V**, 27, 43, 89, 159, 213, 275, 309

This is the final arrangement and Step V is the last step for this input.

18. How many steps will be required to get the final output from the following input?
**Input:** 39, 149, 407, 79, 315, 217, 195
1) 5 2) 6 3) 7 4) 8 5) None of these
19. What will be the fourth step for the following input?
**Input:** 312, 49, 215, 413, 187, 297, 132
1) 312, 49, 187, 215, 297, 413, 132
2) 312, 132, 187, 215, 297, 49, 413
3) 312, 49, 187, 215, 413, 297, 132
4) 49, 132, 187, 215, 297, 312, 413
5) None of these
20. If following is the second step for an input, what will be the fifth step?
**Step II:** 439, 167, 297, 317, 517, 487, 132
1) 167, 517, 297, 317, 439, 487, 132
2) 517, 167, 297, 317, 439, 487, 132
3) 132, 167, 297, 317, 439, 487, 517
4) Can't be determined
5) None of these
21. If 119, 39, 68, 87, 93, 116, 41 is the third step of an input, which of the following steps will be 119, 41, 68, 87, 93, 116, 39?
1) Fourth 2) Fifth 3) Sixth
4) Can't be determined 5) None of these
22. Which of the following is the last step for the following

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input?
**Input:** 311, 402, 81, 99, 109, 511, 215
1) 81, 99, 109, 215, 311, 402, 511
2) 81, 109, 99, 215, 311, 402, 511
3) 81, 99, 109, 311, 215, 402, 511
4) 511, 81, 99, 109, 311, 402, 215
5) None of these

23. If following is the fourth step for an input, what will be the input?
**Step IV:** 517, 117, 295, 312, 391, 97, 412
1) 97, 412, 517, 117, 295, 312, 391
2) 517, 295, 117, 312, 391, 97, 412
3) 412, 517, 295, 117, 312, 97, 391
4) Can't be determined
5) None of these

**Directions (Q. 24-29): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** 87, 321, 293, 47, 176, 409, 215
**Step I:** 47, 321, 293, 87, 176, 409, 215
**Step II:** 47, 321, 293, 87, 176, 215, 409
**Step III:** 47, 87, 293, 321, 176, 215, 409
**Step IV:** 47, 87, 293, 215, 176, 321, 409
**Step V:** 47, 87, 176, 215, 293, 321, 409
This is the final arrangement and step V is the last step for this input.

24. How many steps will be required to get the final output from the following input?
**Input:** 182 317 67 249 417 91 293
1) 3 2) 4 3) 5 4) 6 5) None of these

25. What will be the fourth step for the following input?
**Input:** 76 172 372 43 243 361 165
1) 43 76 165 172 243 361 372
2) 43 172 165 76 243 361 372
3) 43 172 372 76 243 361 165
4) Can't be determined
5) None of these

26. If following is the second step for an input, what will be the fourth step?
**Step II:** 46 122 343 48 56 212 415
1) 46 122 212 48 56 343 415
2) 46 48 212 122 56 343 415
3) 46 48 343 122 56 212 415
4) 46 48 212 122 56 343 415
5) None of these

27. Which of the following is the last step for the following input?
**Input:** 26 12 68 36 46 87 9
1) 9 12 26 36 68 46 87
2) 9 12 36 26 46 68 87
3) 9 12 26 36 46 68 87
4) 9 12 26 46 36 68 87
5) None of these

28. Following is the step III for an input. What will be the second step for the input?
**Step III:** 45 47 342 121 55 211 414
1) 45 121 342 47 55 211 414
2) 45 55 342 121 47 211 414
3) 45 211 342 121 55 47 414
4) Can't determined
5) None of these

29. If 23, 142, 348, 96, 400, 200, 410 is the second step of an input, which of the following steps will be 23, 96, 142, 348, 200, 400, 410?
1) Third 2) Fourth 3) Fifth
4) Can't be determined 5) None of these

**Directions (Q. 30-34): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 44 | 38 | 24 | 55 | 16 | 14 | 85 |
| **Step I:** | 8 | 2 | 6 | 1 | 7 | 5 | 4 |
| **Step II:** | 60 | 0 | 32 | -3 | 45 | 21 | 12 |
| **Step III:** | 6 | 0 | 5 | -3 | 9 | 3 | 3 |
| **Step IV:** | 7 | 4 | 14 | 13 | 34 | 39 | 52 |
| **Step V:** | 15 | 12 | 22 | 21 | 42 | 47 | 60 |
| **Step VI:** | 6 | 3 | 4 | 3 | 6 | 2 | 6 |

30. What will be the **4th step** of the following **input**?
**Input:** 23, 61, 15, 35, 54, 75, 85
1) 4, 13, 14, 22, 30, 41, 52 2) 4, 12, 14, 20, 30, 41, 52
3) 3, 13, 14, 20, 30, 41, 52 4) 4, 13, 15, 22, 32, 41, 52
5) None of these

31. The second step of a given input is 45, 60, 21, 77, 0, -3, 32. What will be **step V** for the input?
1) 10, 18, 20, 28, 33, 41, 52 2) 18, 10, 20, 28, 33, 41, 52
3) 18, 18, 20, 29, 33, 41, 62 4) 18, 18, 29, 20, 33, 41, 52
5) None of these

32. In how many steps would the following arrangement be yielded by the given input?
**Input:** 43, 37, 42, 64, 25, 23, 76
**Arrangement:** 10, 1, 14, 13, 34, 39, 52
1) IV 2) V 3) III 4) II 5) None of these

33. What would be the **5th step** of the input?
**Input:** 35, 56, 33, 46, 16, 32, 94
1) 12, 15, 21, 22, 42, 47, 60 2) 15, 12, 22, 21, 42, 47, 60
3) 7, 4, 14, 13, 34, 39, 52 4) 6, 3, 4, 6, 3, 2, 6
5) None of these

34. What will be the **input** for the following **5th step**?
**Step V:** 14, 11, 23, 27, 34, 56, 62
1) 57, 42, 68, 17, 14, 81, 29 2) 52, 41, 17, 81, 14, 68, 29
3) 51, 42, 71, 17, 15, 23, 61 4) Can't be determined
5) None of these

**Directions (Q. 35-39): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input**

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**and the steps of arrangement:**

**Input:** Pull the cover and then push into
**Step I:** Pull the then and cover push into
**Step II:** then the pull into push cover and
**Step III:** into pull the then and cover push
**Step IV:** into pull and then the cover push
and so on.

**As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.**

35. **Input:** Try your best until you get goal
Which of the following steps would be 'get goal try until you your best'?
1) Step 2 2) Step 3 3) Step 4
4) Step 5 5) None of these

36. If **Step VI** of an input is 'deep gutter ball into the has fallen', which of the following would definitely be the **input**?
1) has the ball fallen into deep gutter
2) ball has fallen into the deep gutter
3) deep gutter has fallen into the ball
4) gutter has deep ball fallen into the
5) None of these

37. If **Step IV** of an input is 'We can't measure the depth without scale', what would be the **7th step**?
1) scale we the measure can't depth without
2) the we scale without depth can't measure
3) without we scale the can't measure depth
4) the we depth without scale can't measure
5) None of these

38. **Input:** Standing hard always is impossible for all
Which of the following will be **8th step** for this input?
1) hard all standing is impossible for always
2) hard all impossible is standing for always
3) impossible all hard always for standing is
4) impossible all for always hard standing is
5) None of these

39. If **Step I** of an input is 'Play and jump until you tired fully', what would be step VI of the input?
1) jump fully tired you and play until
2) tired fully jump until play and you
3) tired fully play until jump and you
4) play fully tired you and jump until
5) None of these

**Directions (Q. 40-44): Study the following information to answer the given questions.**

A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of the input and the steps of rearrangement.

**Input:** go for the cinema on Tuesday
**Step I:** Tuesday go for the cinema on
**Step II:** Tuesday cinema go for the on
**Step III:** Tuesday cinema the go for on
**Step IV:** Tuesday cinema the for go on
**Step V:** Tuesday cinema the for on go
(Step V is the last step for this input.)

**As per the rules followed in the above steps, find out the appropriate answers to the questions given below.**

40. What would be the last step for the following input?
**Input:** religion provide moral and ethical values
1) religion ethical provide values moral and
2) religion provide ethical moral values and
3) religion provide ethical values moral and
4) and moral values religion provide ethical
5) None of these

41. What would be the penultimate step for the following input?
**Input:** the of president new Indonesia is Waheed
1) president Indonesia Waheed the new of is
2) president Indonesia Waheed the of new is
3) president Waheed Indonesia the new of is
4) president Waheed Indonesia new the of is
5) president Indonesia Waheed new the is of

42. The second step of a given input is "inside yours do you have it". What will be the **Step V** for the given input?
1) inside yours have you do it
2) inside do you have it yours
3) do you have it inside yours
4) inside yours have you it do
5) Can't be determined

43. The third step of a given input is "pressurise directors usually boards of a film". What will be the input?
1) pressurise boards usually directors of a film
2) boards usually pressurise of directors a film
3) boards pressurise usually directors of a film
5) boards usually pressurise directors a film of
5) Can't be determined

44. In how many steps can the following input be fully arranged?
**Input:** Mahatma Gandhi believed in simple living and thinking
1) Five 2) Six 3) Four 4) Seven 5) None of these

**Directions (Q. 45-49): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 12, 17, 14, 23, 22, 19, 25, 29
**Step I:** 6, 16, 10, 10, 8, 20, 14, 22
**Step II:** 9, 64, 25, 25, 16, 100, 49, 121
**Step III:** 15, 20, 17, 26, 25, 22, 28, 32
**Step IV:** 19, 29, 23, 41, 39, 33, 45, 53
**Step V:** 3, 8, 5, 5, 4, 10, 7, 11
**Step VI:** 22, 19, 12, 17, 25, 29, 14, 23

45. What will be the sixth step of the following input?

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**Input:** 52, 78, 43, 39, 47, 36, 57, 19
1) 78, 43, 52, 39, 47, 57, 36, 19
2) 47, 36, 52, 78, 57, 19, 43, 39
3) 39, 43, 47, 78, 36, 57, 52, 19
4) 47, 36, 43, 39, 57, 19, 52, 78
5) None of these

46. If the fourth step of a given input is 13, 17, 9, 7, 21, 15, 19, what will be the input?
1) 11, 7, 13, 10, 9, 12, 6 2) 7, 9, 13, 8, 11, 6, 19
3) 21, 7, 10, 6, 12, 9, 5 4) 9, 11, 7, 6, 13, 10, 12
5) None of these

47. If the first step of the given input is 22, 30, 26, 38, 42, 38, 72, 28, what will be step V for the input?
1) 4, 11, 7, 10, 5, 11, 9, 5 2) 9, 13, 11, 7, 15, 19, 5, 28
3) 15, 9, 7, 19, 11, 14, 8, 9 4) 17, 15, 5, 11, 8, 9, 13, 10
5) None of these

48. What will be the third step of the following input?
**Input:** 26, 29, 32, 35, 38, 41, 44, 47
1) 27, 31, 35, 39, 43, 47, 51, 55
2) 29, 32, 35, 38, 41, 44, 47, 50
3) 23, 26, 29, 30, 33, 36, 40, 45
4) 25, 28 34, 38, 40, 45, 48, 50
5) None of these

49. What will be the second step of the following input?
**Input:** 13, 11, 19, 17, 24, 21, 27, 29
1) 69, 81, 72, 85, 96, 63, 54, 87
2) 11, 18, 15, 23, 29, 13, 9, 17
3) 8, 5, 25, 16, 81, 36, 64, 49
4) 16, 4, 100, 64, 36, 9, 81, 121
5) None of these

**Directions (Q. 50-55): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** bui hi 283 fa 312 ja 17
**Step I:** fa hi 283 bui 312 ja 17
**Step II:** bui 283 hi fa 17 ja 312
**Step III:** hi 283 bui 312 ja 17 fa
**Step IV:** hi ja bui 312 283 17 fa
**Step V:** 312 ja bui hi 283 17 fa
**and so on.**

**As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.**

50. **Input:** ht 6 feet waist 28 inch wow
Which of the following steps would be '6 ht inch 28 waist wow feet'?
1) Step 3 2) Step 4 3) Step 5
4) This arrangement can't be determined
5) None of these

51. If **Step IV** of an input is '120 miles Ran 80 km far Jam' which of the following would definitely be the **input**?
1) Ran 120 km Jam 80 miles far
2) Ran km Ran 80 miles far Jam
3) 80 miles Ran 120 km far Jam
4) Can't be determined
5) None of these

52. If **Step III** of an input is 'BSC has changed its old office yesterday', what would be **step VII** of the input?
1) old office BSC has changed its yesterday
2) has BSC change its old office yesterday
3) old changed BSC has office yesterday its
4) Can't be determined
5) None of these

53. **Input:** Kapil the most patriotic man of country
Which of the following will be **8th step** for this input?
1) the most Kapil man patriotic country of
2) of country the most Kapil patriotic man
3) of Kapil the most country patriotic man
4) Can't be determined
5) None of these

54. If **Step V** of an input is 'do not watch cricket until they accept', what would be the middle three words of the **7th step**?
1) until cricket accept 2) cricket until they
3) until cricket they 4) Can't be determined
5) None of these

55. If **Step I** of an input is '9 2 11 chal foot le Veeru', what would be **Step VI** of the input?
1) 2 chal le foot 9 Veeru 11
2) chal le foot 9 2 Veeru 11
3) le chal foot 2 9 11 Veeru
4) Can't be determined
5) None of these

**Directions (Q. 56-61): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** cooler and wind helps in summer.
**Step I:** wind cooler and helps in summer.
**Step II:** wind summer cooler and helps in.
**Step III:** wind summer in cooler and helps.
**Step IV:** wind summer in helps cooler and.

**Since the words are already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the words get fully arranged. Study the logic and answer the questions that follow:**

56. Which of the following will be the **Step II** for the input given below?
**Input:** in the bag five packets were kept.
1) were pockets in the bag five kept.
2) packets were in the bag five kept.
3) kept were packets bag five in the.
4) Can't be determined
5) None of these

57. **Input:** it should not be happened that day.

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For the above input, which step will be the following arrangement?
**Arrangement:** that should not it be happened day.
1) Step III 2) Step IV 3) Step V
4) Step VI 5) None of these

58. If following is the second step for an input, what will be the fifth step?
**Step II:** Zoo Yalk I have never seen till date.
1) Zoo Yalk till seen I have never date.
2) Zoo Yalk till never seen I have date.
3) Zoo Yalk till seen never I have date.
4) Can't be determined
5) None of these

59. Which of the following is the last step for the following input?
**Input:** life has become bore without you true.
1) you without true life has bore become.
2) you without life true has bore become.
3) you without true life has become bore.
4) without you true life has become bore.
5) None of these

60. If following is the fourth step for an input, what will be the input?
**Step IV:** umb sut rain para chu am go by.
1) para sut umb rain chu go am by.
2) rain sut umb para chu am go by.
3) chu am go by umb sut rain para.
4) Can't be determined
5) None of these

61. How many steps will be required to get the final output from the following input?
**Input:** he is bathing in shower with dove soap.
1) 4 2) 5 3) 6 4) 7 5) None of these

**Directions (Q. 62-67): A machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** Within 9 10 days he played 5 or 3
**Step I:** 10 within 9 days he played 5 or 3
**Step II:** 10 within 9 played days he 5 or 3
**Step III:** 10 within 9 played 5 days he or 3
**Step IV:** 10 within 9 played 5 days 3 he or
**Step V:** 10 within 9 played 5 days 3 or he
Step V is the last step for this input.

62. Which of the following will be the **Step IV** for the input given below?
**Input:** 3 boys 9 girls 4 days 2 works
1) 9 works 4 3 boys girls days 2
2) 9 works 4 girls 2 boys days 3
3) 9 works 4 girls 3 days boys 2
4) 9 works 4 girls 3 boys days 2
5) None of these

63. If following is the third step for an input, what will be the input?
**Step III:** 5 nights 3 show 2 films real enjoy
1) films 5 show 2 nights 3 real enjoy
2) 3 nights 5 films 2 show real enjoy
3) 5 mights 2 show 3 films enjoy real
4) Can't be determined
5) None of these

64. For the input given below, five steps have been given, though not respectively. However, one of these is not the correct arrangement. The number of that option is your answer.
**Input:** 16 hrs concentration 12 jobs 18 proposals
1) 18 concentration 16 proposals hrs 12 jobs
2) 18 concentration 16 12 proposals hrs jobs
3) 18 16 hrs concentration 12 jobs proposals
4) 18 concentration 16 proposals 12 jobs hrs
5) 18 concentration 16 hrs 12 jobs proposals

65. If **Step II** of an input is '29 horses 10 jumps 19 world grain green' what will be the **Step V** of the same input?
1) Can't be determined
2) 29 horses 19 10 jumps world grain green
3) 29 horses 19 world 10 jumps green grain
4) 29 horses 19 world 10 jumps grain green
5) None of these

66. How many steps will be required to get the final output from the following input?
**Input:** after 26 19 defeats 21 attempt new chance
1) VII 2) III 3) IV 4) V 5) None of these

67. Which of the following is the last step for the following input?
**Input:** 2 magazine worth 60 free with 1 book Yahoo
1) 60 magazine 2 Yahoo 1 worth with free book
2) 60 magazine 2 1 Yahoo worth with free book
3) 60 magazine 2 Yahoo 1 worth free with book
4) 60 magazine 2 Yahoo 1 worth with book free
5) None of these

**Directions (Q. 68-72): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** hurrey we get the add very soon
**Step I:** hurrey add get the we very soon
**Step II:** get add hurrey soon very we the
**Step III:** soon hurrey add get the we very
**Step IV:** soon the add get hurrey we very
and so on.

**As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.**

68. **Input:** we both were going alone in car
Which of the following steps would be 'alone going car in both we were'?
1) Step 2 2) Step 3 3) Step 4

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4) Step 5 5) None of these

69. If **Step V** of an input is 'front in me of was it blank', which of the following would definitely be the **input**?
1) blank was it me of front in
2) blank front it me of was in
3) it was blank in front of me
4) it front was blank in of me
5) None of these

70. If **Step III** of an input is 'do not run behind the beauty thing', what would be the **6th step**?
1) the do thing run behind not beauty
2) thing do the run behind not beauty
3) thing behind the run do not beauty
4) thing behind the beauty not do run
5) None of these

71. **Input:** has Hansie really fixed the match India
Which of the following will be **8th step** for this input?
1) fixed match really Hansie has India the
2) fixed really match has Hansie India the
3) fixed has match Hansie really India the
4) fixed match has Hansie really India the
5) None of these

72. If **Step I** of an input is 'saddy face was good and bad both', what would be **step VII** of the input?
1) bad was good face both saddy and
2) bad both good face was saddy and
3) good both bad and saddy was face
4) good bad both and saddy was face
5) None of these

**Directions (Q. 73-79): A machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** Is 9 and 2 equal to 11.
**Step I:** Is 2 and 9 equal to 11.
**Step II:** Is 2 to 9 equal and 11.
**Step III:** Is 2 to 9 and equal 11.
**Step IV:** Is 2 to 9 and 11 equal.

**This is the last step of this input. Study the logic and answer the questions that follow:**

73. Which of the following is the last step for the following input?
**Input:** 17 minus 8 is not always 9.
1) 17 is 8 not 9 minus always.
2) is 8 not 17 minus 9 always.
3) always 8 is 17 minus 9 not.
4) is 8 not 9 minus 17 always.
5) None of these

74. How many steps will be required to get the final output from the following input?
**Input:** Salgaonkar defeats Mohun 3 by 8 in 10.
1) V 2) VI 3) IV 4) VII 5) None of these

75. **Input:** 3 kilo of each means 1.4 and 1.6
For the above input, which step will be the following arrangement?
**Arrangement:** of 1.4 and 1.6 means kilo 3 each
1) Step III 2) Step IV 3) Step V
4) Step II 5) None of these

76. Which of the following will be the **Step II** for the input given below?
**Input:** 3 hat tricks 140 wicket 1223 run
1) hat 3 run 140 wicket 1223 tricks
2) hat 3 tricks 140 wicket 1223 run
3) 3 hat 140 tricks wicket 1223 run
4) 3 hat 140 tricks 1223 wicket run
5) None of these

77. If following is the third step for an input, what will be the input?
**Step III:** eye 2 into 3 pour 5 times daily drops
1) eye 3 into 2 drops pour 5 times daily
2) 2 drops 3 times daily pour into 5 eye
3) 3 drops 5 times daily pour into 2 eye
4) Can't be determined
5) None of these

78. If **Step II** of an input is 'Ash 94 Dia 97 99 Yukta miss world' what will be the **step V** of the same input?
1) Machine will stop after Step III.
2) Ash 94 Dia 97 miss Yukta 99 world.
3) Machine will stop after Step IV.
4) Ash 94 Dia 97 miss 99 world Yukta
5) None of these

79. For the input given below, five steps have been given, though not respectively. However, one of these is not the correct arrangement for any of the first five steps. The number of that option is your answer.
**Input:** Dial 24 10 57 4 to contact us
1) to 4 10 57 24 Dial contact us.
2) to 4 us 57 24 Dial contact 10.
3) to 24 10 57 4 Dial contact us.
4) to 4 us 24 Dial 57 10 contact.
5) to 4 us 24 10 24 Dial contact.

**Directions (Q. 80-84): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** Ja Ma Da Ch Ha Bo Ka
**Step I:** Da Ja Ma Ha Bo Ka Ch
**Step II:** Ha Da Ja Ma Ka Ch Bo
**Step III:** Ja Ha Da Ka Ch Bo Ma
and so on.

**As per the rule followed in the above steps, find out the appropriate answers in the following questions.**

80. If Step II of an input is 'ga re bu la ra hi hai', what would be step VII?
1) ra ga hai hi re la bu 2) hai ga ra bu hi re la
3) hi ra hai ga la bu re 4) ra hai ga hi re la bu

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5) None of these

81. **Input:** hai da di Mo su ka au
Which of the following will be the 4th step for this input?
1) hai su di au Mo ka da 2) au hai su di ka da Mo
3) su au hai ka da Mo di 4) au su hai di ka do Mo
5) None of these

82. If Step IV of an input is 'Na Che Ne aye angan to rha', what would be the VIIIth step?
1) Na angan Ne rha aye to Che
2) angan Narha Ne to Che aye
3) rha Na angan Ne to Che aye
4) Na rha angan Ne to Che aye
5) None of these

83. **Input:** ek din dino me ku da li
Which of the following steps would be 'da ku li ek me dino din'?
1) Step V 2) Step VI 3) Step VII
4) Step VIII 5) None of these

84. If Step V of an input is 'ki sso Li ya or Bo Bhi'
Which of the following would definitely be the input?
1) Can't be determined 2) Li Bhi or Bo ki sso ya
3) or Li Bhi Bo ya ki sso 4) Li or Bhi Bo ki ya sso
5) None of these

**Directions (Q. 85-89): A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:**
**Input:** man's mood varies with time and environment
**Step I:** varies with man's mood environment and time
**Step II:** and time environment mood man's varies with
**Step III:** environment time and varies with mood man's
**Step IV:** and varies environment time man's mood with
**And so on for subsequent steps. You have to find out the logic and answer the questions given below.**

85. If **Step V** reads "bees are sucking juice from colourful flowers", what would **Step III** read?
1) sucking are bees colourful flowers juice from
2) colourful juice from bees sucking flowers are
3) colourful flowers from juice sucking bees are
4) from juice colourful flowers are bees sucking
5) None of these

86. If **Step III** reads "old streets of Calcutta attract me lots", what would be the arrangement for **Step VII**?
1) me of old attract lots streets Calcutta
2) lots attract me of Calcutta streets old
3) streets old Calcutta of me lots attract
4) Calcutta of streets old attract lots me
5) None of these

87. If **Step IV** reads "everyone were aware about their intimate friendship", what will be the middle three words of **Step II**?
1) their intimate aware 2) aware intimate their
3) everyone were friendship 4) aware were intimate
5) None of these

88. If the given input is "he has learnt a lot from Krishna", what will be **Step VI**?
1) he a has from learnt lot Krishna
2) has from he a Krishna lot learnt
3) lot learnt Krishna a he has from
4) Krishna a lot learnt from has he
5) None of these

89. **Input:** he is member of the dancing club.
For the above input, which step will be the following arrangement?
**Arrangement:** is of he the club dancing member.
1) Step IV 2) Step V 3) Step VI
4) Step III 5) None of these

**Directions (Q. 90-96): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** 245, 316, 436, 519, 868, 710, 689
**Step I:** 710, 316, 436, 519, 868, 245, 689
**Step II:** 710, 316, 245, 519, 868, 436, 689
**Step III:** 710, 316, 245, 436, 868, 519, 689
**Step IV:** 710, 316, 245, 436, 519, 868, 689
**Step IV** is the last step for the given input.

90. If '655, 436, 764, 799, 977, 572, 333' is the input, which of the following steps will be '333, 436, 572, 655, 977, 764, 799'?
1) Second 2) Third 3) Fourth
4) First 5) None of these

91. How many steps will be required to get the final output from the following input?
**Input:** 544, 653, 325, 688, 461, 231, 857
1) 5 2) 4 3) 3 4) 6 5) None of these

92. For the given input, which of the following will be the third step?
**Input:** 236, 522, 824, 765, 622, 463, 358
1) 522, 236, 765, 824, 622, 463, 358
2) 522, 622, 236, 824, 765, 463, 358
3) 522, 622, 236, 765, 824, 463, 358
4) 522, 622, 236, 463, 824, 765, 358
5) None of these

93. If following is the second step for an input, what will be the fourth step?
**Step II:** 620, 415, 344, 537, 787, 634, 977
1) 620, 415, 344, 537, 634, 787, 977
2) 620, 415, 344, 634, 537, 787, 977
3) 620, 415, 344, 634, 787, 537, 977
4) Can't be determined
5) None of these

94. Following is the step III for an input. What will be the first step for the input?
**Step III:** 432, 433, 542, 666, 734, 355, 574

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1) 666, 542, 432, 734, 433, 574, 355
2) 542, 666, 734, 432, 433, 574, 355
3) 355, 574, 433, 432, 734, 666, 542
4) Can't be determined
5) None of these

95. Which of the following is the last step for the following input?
**Input:** 473, 442, 735, 542, 367, 234, 549
1) 234, 442, 542, 473, 735, 367, 549
2) 234, 442, 542, 735, 473, 367, 549
3) 234, 442, 542, 473, 367, 735, 549
4) 234, 442, 542, 735, 367, 473, 549
5) None of these

96. What will be the third step for the following input?
**Input:** 653, 963, 754, 345, 364, 861, 541
1) 541, 345, 754, 963, 364, 816, 653
2) 541, 345, 364, 653, 963, 754, 861
3) 541, 345, 364, 963, 754, 861, 653
4) 541, 345, 364, 653, 861, 754, 963
5) None of these

**Directions (Q. 97-103): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** 37 307 196 49 107 647 219 436
**Step I:** 37 647 307 196 49 107 219 436
**Step II:** 37 647 49 307 196 107 219 436
**Step III:** 37 647 49 436 307 196 107 219
**Step IV:** 37 647 49 436 107 307 196 219
**This is the final arrangement and step IV is the last step for this input.**

97. What should be the fourth step of the following input?
**Input:** 312 64 439 29 231 172 100
1) 29 439 64 312 231 172 100
2) 29 439 64 312 100 172 231
3) 29 439 64 312 100 231 172
4) Can't be determined
5) None of these

98. What will be the fifth step for an input whose third step is given below?
**Step III:** 17 581 31 317 81 461 133 271
1) 17 581 31 461 81 317 133 271
2) 17 581 31 461 317 81 133 271
3) 17 581 31 461 81 317 271 133
4) Cannot be determined
5) None of these

99. How many steps will be required to get the final output from the following input?
**Input:** 319 765 123 15 320 51 426
1) Four 2) Six 3) Five
4) Seven 5) None of these

100. What should be the last step of the following input?
**Input:** 417 72 323 112 98 517 235
1) 72 417 98 235 112 323 517
2) 72 517 98 417 112 235 323
3) 72 517 98 417 235 112 323
4) 72 517 98 235 417 112 323
5) None of these

101. If the second step of an input is 102 627 561 137 341 286 147, then which of the following steps will be 102 627 137 561 147 341 286?
1) Fourth 2) Fifth 3) Third
4) Sixth 5) None of these

102. Below is given the fourth step of an input. What will be its first step?
**Step IV:** 11 311 14 211 91 117 24 151
1) 117 91 11 14 311 151 24 211
2) 211 117 14 11 151 311 91 24
3) 11 24 311 14 211 91 117 151
4) Cannot be determined
5) None of these

103. Below is given the first step of an input. What will be its fifth step?
**Step I:** 43 363 506 303 416 374 288
1) 43 506 288 416 363 303 374
2) 43 506 288 363 303 416 374
3) 43 506 288 416 303 374 363
4) 43 506 288 416 303 363 374
5) None of these

**Directions (Q. 104-110): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** Punjabi music has rhythm and lively beat.
**Step I:** music Punjabi has rhythm and lively beat.
**Step II:** music and Punjabi has rhythm lively beat.
**Step III:** music and Punjabi rhythm has lively beat.
**Step IV:** music and Punjabi rhythm has beat lively.
**Step IV** is the last step of this input.
**Now study the logic and answer the questions that follow:**

104. What would be the penultimate step for the following input?
**Input:** Kaho Naa Pyaar Hai is slowly fading.
1) Naa fading Hai Kaho Pyaar is slowly.
2) Naa fading Kaho Pyaar Hai is slowly.
3) Naa Kaho Pyaar Hai is slowly fading.
4) Naa fading Kaho Pyaar Hai slowly is.
5) None of these

105. If step IV of an input is 'scripted are himself both films Amit by', which of the following would be step I of that input?
1) scripted are himself both films by Amit
2) scripted are both films by Amit himself
3) scripted both films are by Amit himself
4) Can't be determined

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5) None of these

106. **Input:** I am full confidence about my abilities.
What will be the fourth step for this input?
1) confidence I full am abilites about my
2) confidence I full am about my abilities
3) confidence I am full about my abilities
4) No such step
5) None of these

107. Which of the following will be last step for the input given below?
**Input:** Fashion no longer hold as much interest.
1) hold much Fashion no as longer interest.
2) hold much Fashion no longer interest as.
3) hold much Fashion no longer as interest.
4) hold much no Fashion longer as interest.
5) None of these

108. How many steps will be required to get the final output from the following input?
**Input:** She danced dandia on beats for him
1) IV 2) V 3) III 4) VI 5) None of these

109. If step I of an input is 'had remember the poisonous look Minakshi cast' what step would be 'had the Minakshi look remember poisonous cast'?
1) VII 2) III 3) VI 4) V 5) None of these

110. If step II is 'Puja and wish congratulations heartiest Deepawali for', which of the following would be the input?
1) Heartiest congratulations and wish for Deepawali Puja
2) Heartiest Deepawali for and puja wish congratulations
3) Heartiest Deepawali for puja and wish congratulations
4) Can't be determined
5) None of these

**Directions (Q. 111-117): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** She was interested in doing art film
**Step I:** art she was interested in doing film
**Step II:** art was she interested in doing film
**Step III:** art was in she interested doing film
**Step IV:** art was in film she interested doing
**Step V:** art was in film doing she interested
Step V is the last step of this input.

**Now study the logic and answer the questions that follow:**

111. Which of the following will be last step for the input given below?
**Input:** He is going out to search air
1) out is air to going search he
2) out is air to search going he
3) search he out is air to going
4) out air is to search going he
5) None of these

112. If step II of an input is 'not is the casino considering legal action', what step would be 'not is casino action legal the considering'?
1) IIIrd 2) IVth 3) Vth 4) VIth 5) None of these

113. **Input:** Life is all about affair and gossip
What will be the fourth step for this input?
1) about is affair gossip life all and
2) about life is all affair and gossip
3) about affair gossip life is all and
4) about is affair gossip all life and
5) None of these

114. If step III is "many him farewell here gathered to bid", which of the following would be the input?
1) here many gathered to bid farewell him
2) here many to bid gathered farewell him
3) here to many gathered bid farewell him
4) Cannot be determined
5) None of these

115. If step V of input is 'net is do can if true idea', which of the following would be step II of that input?
1) if is true net can do idea 2) net is if true can do idea
3) net is idea if true can do 4) net is if can true do idea
5) Can't be determined

116. How many steps will be required to get the final output from the following input?
**Input:** Father needs to check on the boy
1) 5 2) 6 3) 7 4) 4 5) None of these

117. What would be the penultimate step for the following input?
**Input:** Private detectives run over official machinery
1) machinery detectives run over private official
2) machinery detectives over private official run
3) machinery over detectives official private run
4) machinery detectives over run official private
5) None of these

**Directions (Q. 118-122): Study the following information to answer the given questions.**

A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of the input and the steps of rearrangement.

**Input:** wearing dress tops strappy you avoid arm
**Step I:** strappy wearing dress tops you avoid arm
**Step II:** strappy wearing avoid dress tops you arm
**Step III:** strappy wearing avoid dress tops arm you
(Step III is the last step for this input)

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

118. **Input:** threats gang careful answer agree classes more
Which of the following will be the third step for this

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input?
1) careful threats gang answer agree classes more
2) careful classes threats answer gang agree more
3) careful answer classes agree threats gang more
4) careful classes threats gang answer agree more
5) None of these

119. If the second step of an input is 'children teachers bunking school canteen movie freedom ' which of the following will be its fifth step?
1) children teachers bunking canteen school movie freedom
2) bunking teachers children school canteen movie freedom
3) canteen freedom school movie children teachers bunking
4) children teachers bunking movie canteen school freedom
5) It cannot have fifth step.

120. If the input is 'pangs of worst and fears the neglect', which of the following will be the IV step?
1) neglect fears pangs worst and of the
2) and the neglect of pangs worst fears
3) and the of neglect pangs worst fears
4) worst pangs fears neglect of and the
5) Cannot be determined

121. **Input:** 'her famous away sibling thing usual stay'.
Which of the following steps would be the last step for this input?
1) III 2) IV 3) V 4) VI 5) VII

122. If step V of an input is 'holding bench elbow floor bent lie your on', what will be step II?
1) on lie holding bench floor bent elbow your
2) holding bench elbow lie your floor on bent
3) holding bench elbow floor lie your on bent
4) holding lie your elbow bench floor on bent
5) Cannot be determined

**Directions (Q. 123-128): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** and band land hand hind lack job
**Step I:** hind and band lack land hand job
**Step II:** hind band land job and lack hand
**Step III:** hind and lack band hand land job
**Step IV:** land band and job hand lack hind
**Step V:** hand land band lack and job hind
**Step VI:** hand band and hind land lack job
and so on.

As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.

123. **Input:** do we he is it at all
Which of the following steps would be
"all we he is do at it"?
1) It is not possible to get the above step.
2) Step VI
3) Step IX
4) Step X
5) None of these

124. If **Step IV** of an input is "he is to do what her observe", which of the following would definitely be the **input**?
1) to is he what observe her do
2) he is to what observe her do
3) is he to what observe her do
4) Can't say
5) None of these

125. If **Step III** of an input is
"when then men can how are you"
what would be **step VII** of the input?
1) then can are when you men how
2) how are men can you then when
3) you then can men are when how
4) how can then men are when you
5) None of these

126. **Input:** stejpan mesic is the president of croatia
Which of the following will be **step VIII** for this input?
1) the mesic stejpan president is of croatia
2) the is of mesic croatia stejpan president
3) sejpan mesic is president croatia of the
4) the stejpan mesic of is president croatia
5) None of these

127. If **Step V** of an input is
"will you hit centuries three again at",
what will be the middle three words of **step VII?**
1) will you hit
2) you hit centuries
3) hit centuries three
4) centuries three again
5) None of these

128. If **step II** of an input is
"has started new BSC batches for PO",
what will be **Step VI** of the input?
1) new PO for started BSC batches has
2) PO new for started BSC batches has
3) PO new started for batches BSC has
4) PO started batches has new for BSC
5) None of these

**Directions: (Q. 129-133): Study the following information carefully and answer the questions given below:**

A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:

**Input:** yes no is of name the code Neha
**Step I:** is yes no of name the code Neha
**Step II:** is no yes of name the code Neha
**Step III:** is no of yes name the code Neha
**Step IV:** is no of the yes name code Neha
**Step V:** is no of the yes code name Neha
(This is the last arrangement and step V is the last step of this input)

129. If the following is the second step of an input, what will be the **fourth step**?

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**Step II:** go oh we all you went are have
1) go oh all we are you have went
2) go we oh all are you have went
3) go oh we all are you have went
4) Can't be determined
5) None of these

130. If the following is the third step of an input, what will be its **first step**?
**Step III:** to for has been power growing their demands
1) to for has been growing their demands power
2) to has been growing for their demands power
3) to for has growing been their demands power
4) Can't be determined
5) None of these

131. Which of the following is the **third step** for the following input?
**Input:** date and month on year happy my dear
1) my on and date month year dear happy
2) my on and date dear month year happy
3) my on and date month year happy dear
4) my on date and month year happy dear
5) None of these

132. How many steps will be required to get the final output from the following input?
**Input:** did of do dog cat rat animals ago
1) Four 2) Five 3) Three
4) Two 5) None of these

133. If step I of on input is "is state all out to its trying increase", what step would be "is to all its out state trying increase"?
1) Five 2) Six 3) Seven
4) Can't be determined 5) None of these

**Directions (Q. 134-138): A word arrangement machines, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** happy new year to all our readers
**Step I:** year happy new all our readers to
**Step II:** all year happy new readers to our
**Step III:** happy all year readers to our new
**Step IV:** readers happy all year our new to
and so on.

As per the rule followed in the above steps, find out the appropriate answers to the following questions:

134. Which of the following steps will be
"happy new year to all our readers"
for the above sample Input?
1) Step VII 2) Step X 3) Step XII
4) Step XIII 5) Step XIV

135. **Input:** aspirations desired your fulfil will year new
Which of the following will be the seventh step for this input?
1) Can't say
2) year will new aspirations fulfil your desired
3) new year will fulfil your desired aspirations
4) your desired aspirations new year will fulfil
5) None of these

136. **Input:** din bik maati ek ke jayega mol
Which of the following steps would be
"ek mol jayega ke bik din maati"?
1) Step V 2) Step VI 3) Step VII
4) Step VIII 5) Step IX

137. If **step X** of an input is
"tittle hanky tattle panky hob nob mob"
which of the following would be step XIII?
1) tittle hob tattle mob panky nob hanky
2) panky hob tattle mob tittle nob hanky
3) hanky hob tattle mob tittle nob panky
4) hanky tattle hob mob tittle nob panky
5) None of these

138. If step IV of an input is
"all done half right at none for"
which of the following would definitely be the input?
1) Can't be determined
2) done none right for half at all
3) all at half for right none done
4) right none done all at half for
5) None of these

**Directions (Q. 139-145): Study the following information to answer the questions given below:**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Input:** | 14 | 28 | 33 | 36 | 39 | 48 | 49 | 56 |
| **Step I:** | 33 | 14 | 28 | 36 | 39 | 48 | 49 | 56 |
| **Step II:** | 33 | 36 | 14 | 28 | 39 | 48 | 49 | 56 |
| **Step III:** | 33 | 36 | 39 | 14 | 28 | 48 | 49 | 56 |
| **Step IV:** | 33 | 36 | 39 | 48 | 14 | 28 | 49 | 56 |

This is the final arrangement and step IV is the last step for this input.

139. What will be the fifth step for an input whose **second step** is given below?
**Step II:** 51 69 49 87 93 77 70 56
1) 51 69 87 49 93 77 70 56
2) 51 69 87 93 49 77 70 56
3) 51 69 87 93 49 56 77 70
4) 51 69 87 93 49 56 70 77
5) None of these

140. Below is given the **last step** of an input. What will be its second step?
**Last Step:** 51 69 87 93 49 56 77 70
1) 51 69 49 87 93 56 77 70
2) 51 69 49 87 93 77 70 56
3) 51 69 49 87 77 93 70 56
4) Can't be determined
5) None of these

141. What should be the third step of the following input?
**Input:** 91 273 35 249 553 511 201 183
1) 183 201 249 91 273 35 553 511
2) 183 201 91 273 35 249 553 511
3) 183 91 273 35 249 553 511 201
4) 35 91 183 273 249 553 511 201
5) None of these

142. How many steps will be required to get the final output from the following input?

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**Input:** 183 35 553 201 273 249 511 91
1) Four 2) Five 3) Six 4) Seven 5) None of these

143. If the first step of an input is "15 287 93 69 427 371 497 51" then which of the following steps will be "15 51 69 93 287 427 371 497"?
1) Four 2) Five 3) Six
4) Three 5) None of these

144. Below is given the third step of an input. What will be its second step?
**Step III:** 15 51 69 35 91 511 553 93
1) 15 51 35 91 69 511 553 93
2) 15 51 35 91 511 69 553 93
3) 15 51 35 91 511 553 69 93
4) Cannot be determined
5) None of these

145. What should be the last step of the following input?
**Input:** 287 183 427 201 371 249 497 273
1) 183 201 249 273 287 371 497 427
2) 287 371 427 497 183 201 249 273
3) 183 201 249 273 287 371 427 497
4) 183 201 249 273 287 497 371 427
5) None of these

**Directions (Q. 146-151): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

**Input:** exam 81 56 over down up 16 64
**Step I:** down exam 81 56 over up 16 64
**Step II:** down 81 exam 56 over up 16 64
**Step III:** down 81 exam 64 56 over up 16
**Step IV:** down 81 exam 64 over 56 up 16

Step IV is the last step of the rearrangement of the above input.

As per the rule followed in the above steps, answer the following questions.

146. **Input:** 98 11 64 22 but will an it
Which of the following will be step VI?
1) Step VI can't be possible because step V will be the last step
2) an 98 but 64 it 22 11 will
3) an 98 but 64 it 22 will 11
4) an 11 but 22 it 64 will 98
5) None of these

147. **Input:** 32 now 20 gift 53 box 62 at
Which of the following will be step IV?
1) at 62 box 53 32 now 20 gift
2) at 62 box 53 gift 32 now 20
3) at 62 box 53 gift 20 now 32
4) at 62 53 box 32 now 20 gift
5) None of these

148. **Input:** pay by 18 36 nose ear 72 54
Which of the following steps will be the last step?
1) Can't say 2) Five 3) Seven
4) Six 5) None of these

149. Step III of an input is:
damn 96 flag 87 78 14 saint put
Which of the following steps will be the last but one?
1) Can't say 2) Four 3) Five
4) Six 5) None of these

150. Step II of an input is:
jug 99 wax sun top 15 31 47
Which of the following is definitely the input?
1) wax sun top 15 31 47 jug 99
2) wax sun jug 99 top 15 31 47
3) wax sun top jug 99 15 31 47
4) Cannot be determined
5) None of these

151. Step IV of an input is: Come 95 forward 40 sky 17 over 23. Then which of the following can certainly not be step III?
1) come 95 forward sky 17 over 23 40
2) come 95 forward 17 sky over 23 40
3) come 95 forward sky 40 17 over 23
4) Cannot be determined
5) None of these

**Directions (Q. 152-157): Study the following information to answer the question.**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

| Input | 17 | 23 | 29 | 13 | 47 | 37 | 19 | 79 |
|---|---|---|---|---|---|---|---|---|
| Step I | 79 | 23 | 29 | 13 | 47 | 37 | 19 | 17 |
| Step II | 79 | 47 | 29 | 13 | 23 | 37 | 19 | 17 |
| Step III | 79 | 47 | 37 | 13 | 23 | 29 | 19 | 17 |
| Step IV | 79 | 47 | 37 | 29 | 23 | 13 | 19 | 17 |
| Step V | 79 | 47 | 37 | 29 | 23 | 19 | 13 | 17 |
| Step VI | 79 | 47 | 37 | 29 | 23 | 19 | 17 | 13 |

This is the final arrangement and step VI is the last step for this input.

152. If '97 47 23 79 27 11 19 31' is the first step of an input which of the following steps will be '97 79 47 31 27 11 19 23'?
1) Third 2) Fourth 3) Fifth
4) Can't be determined 5) None of these

153. How many steps will be required to get the final output from the following input?
**Input:** 73 31 37 67 19 29 43 13
1) Five 2) Six 3) Seven
4) Eight 5) None of these

154. Following is the step III for an input. What will be the first step for the input?
**Step III:** 97 83 79 13 19 11 53 61
1) 19 11 53 13 97 83 79 61 2) 19 53 13 79 97 11 83 61
3) 11 53 61 13 19 97 83 79 4) Can't be determined
5) None of these

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155. Following is the step III of an input. What will be the fifth step?
**Step III:** 79 61 53 41 19 11 43 13
1) 79 61 53 43 41 19 11 13 2) 79 61 53 43 41 19 13 11
3) 79 61 53 43 19 11 41 13 4) 79 61 53 43 41 11 19 13
5) None of these

156. Which of the following is the last step for the following input?
**Input:** 05 11 17 02 19 13 03 23
1) 23 19 17 13 11 05 02 03 2) 02 03 05 11 13 17 19 23
3) 23 19 17 13 11 05 03 02 4) 23 17 19 13 11 05 03 02
5) None of these

157. For any given input (having eight terms) for the given number arrangement machine, what may be the maximum number of steps in which the given input gets fully arranged?
1) Seven 2) Eight 3) Nine
4) Data inadequate 5) None of these

**Direction (158-162) : A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.**

**Input**: pull the cover and then push into
**Step I**: pull the then and cover push into
**Step II**: then the pull into push cover and
**Step III**: into pull the then and cover push
**Step IV**: into pull and then the cover push
and so on.

158. **Input:** Try your best until you get goal
Which of the following steps would be 'get goal try until you your best'?
1) Step II 2) Step III 3) Step IV
4) Step V 5) None of these

159. If Step VI of an input is
'deep gutter ball into the has fallen'
which of the following would definitely be the input?
1) has the ball fallen into deep gutter
2) ball has fallen into the deep gutter
3) deep gutter has fallen into the ball
4) gutter has deep ball fallen into the
5) None of these

160. If Step IV of an input is
'we can't measure the depth without scale',
what would be step VII?
1) scale we the measure can't depth without
2) the we scale without depth can't measure
3) without we scale the can't measure depth
4) the we depth without scale can't measure
5) None of these

161. **Input** : standing hard always is impossible for all
Which of the following will be step VIII for this input?
1) hard all standing is impossible for always
2) hard all impossible is standing for always
3) impossible all hard always for standing is
4) impossible all for always hard standing is
5) None of these

162. If Step I of an input is 'play and jump until you tired fully',
what would be step VI of the input given above?
1) jump fully tired you and play until
2) tired fully jump until play and you
3) tired fully play until jump and you
4) play fully tired you and jump until
5) None of these

**Directions (Q. 163-167): Study the following information to answer the given questions:**

A number sorting machine, when given an input of numbers, rearranges the numbers in a particular manner step by step as indicated below till all the numbers are arranged in a particular order.

**Input:** 17 56 32 70 81 25 77 92 52 23 60 97
**Step I:** 17 23 32 70 81 25 77 92 52 56 60 97
**Step II:** 17 23 32 70 81 25 77 60 52 56 92 97
**Step III:** 17 23 25 70 81 32 77 60 52 56 92 97
**Step IV:** 17 23 25 70 56 32 77 60 52 81 92 97
**Step V:** 17 23 25 32 56 70 77 60 52 81 92 97
**Step VI:** 17 23 25 32 56 70 52 60 77 81 92 97
**Step VII:** 17 23 25 32 52 70 56 60 77 81 92 97
**Step VIII:** 17 23 25 32 52 60 56 70 77 81 92 97
**Step IX:** 17 23 25 32 52 56 60 70 77 81 92 97
and step IX is the last step for the given input.

163. Which of the following will be the next step for the following input?
**Input:** 50 26 82 28 43 94 68 63
1) 26 28 82 50 43 94 68 63
2) 26 28 82 50 43 63 68 94
3) 26 50 82 28 43 63 68 94
4) 26 50 82 28 43 68 63 94
5) None of these

164. Which of the following was certainly the input of the following step III?
**Step III:** 37 46 89 61 57 72 76 98
1) 57 72 89 61 37 46 76 98
2) 89 57 72 61 46 37 76 98
3) 72 57 89 61 46 37 76 98
4) Cannot be determined
5) None of these

165. How many steps would be required to get the final output for the following input?
**Input:** 75 25 50 40 100 70
1) Three 2) Four 3) Five
4) Six 5) None of these

166. Which of the following will be Step IV for the following input?
**Input:** 40 80 45 30 65 55 60
1) 30 40 45 60 55 65 80
2) 30 40 45 65 55 60 80
3) 30 40 45 55 60 65 80
4) 30 40 60 55 45 65 80
5) None of these

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167. Which of the following will be the last step for the following input?
**Input:** 35 50 80 95 75 45 65 85 25 60
1) 25 35 45 50 65 60 75 80 85 95
2) 25 35 45 50 60 65 75 80 85 95
3) 25 35 50 45 65 60 75 80 85 95
4) 25 35 45 60 50 65 75 80 85 95
5) None of these

**Directions (Q. 168-172): An arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:**
**Input:** India won the match by a huge margin.
**Step I:** A India won the match by huge margin.
**Step II:** A India the match by huge margin won.
**Step III:** A by India the match huge margin won.
**Step IV:** A by India match huge margin the won.
**Step V:** A by huge India match margin the won.
**Step VI:** A by huge India margin match the won.
**Since the words are already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the words get fully arranged. Study the logic and answer the questions that follow:**

168. **Input:** What you are in life depends on your choice.
What will be the 2nd step?
1) Are what you in life depends on your choice
2) Are choice what you in life depends on your
3) Are choice what in life depends on you your
4) Are what you in life depends on choice your
5) None of these

169. Which will be the last step for the following input?
**Input:** Mary had a little lamb.
1) 1st 2) 2nd 3) 3rd 4) 4th 5) None of these

170. **Input:** We will help you reach there.
Which of the following will be the penultimate step?
1) Help reach we there will you
2) Help we will you reach there
3) Help we will reach there you
4) Help reach we will there you
5) Help reach will there we you

171. How many steps will a 10-word input take to be fully arranged?
1) Six 2) Eight 3) Ten
4) Can't say 5) None of these

172. "The terms are not acceptable to me" is which step of a given input?
1) Step I 2) Step II 3) Step IV
4) Can't say 5) None of these

**Directions (Q. 173-177): An arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:**
**Input:** I was not present at the spot
**Step I:** I spot not present at the was
**Step II:** I at not present spot the was
**Step III:** at I not present spot the was
**Since the words are already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the words get fully arranged. Study the logic and answer the questions that follow:**

173. **Input:** The employees of Peregrine are on tenterhooks.
Which of the following will be the last step for the given input?
1) Six 2) Five 3) Four 4) Three 5) None of these

174. **Input:** There is no confirmation yet of the job.
For the above input, which step will be the following arrangement?
**Arrangement:** The is no confirmation job of there yet
1) Step V 2) Step IV 3) Step VI
4) Step III 5) Step II

175. Which of the following is a probable input if Step III reads as follows?
**Step III:** Of all now mergers the under were
1) Of all the mergers now under were
2) Of all the mergers were now under
3) Of all the mergers under now were
4) Mergers were now of all the under
5) None of these

176. **Input:** The blasts were aimed at our leader.
Which of the following will be step II?
1) The blasts aimed at our leader were
2) The blasts leader aimed at our were
3) Our blasts leader aimed at the were
4) Blasts aimed at our leader the were
5) None of these

177. **Input:** Both firms confirmed there were certain difficulties.
Which of the following will be the penultimate step?
1) Step II 2) Step I 3) Step IV
4) Step III 5) None of these

**Directions (Q. 178-182): An arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:**
**Input:** Delhi Police moved the high court in September
**Step I:** court Delhi Police moved the high in September
**Step II:** court Delhi high Police moved the in September
**Step III:** court Delhi high in Police moved the September
**Step IV:** court Delhi high in moved Police the September
**Step V:** court Delhi high in moved Police September the
**Since the words are already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the words get fully arranged. Study the logic and answer the questions that follow.**

178. **Input:** the Supreme Court ordered banning of professional donors.

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What will be the 3rd step?
1) banning the Supreme Court ordered of professional donors
2) banning Court donors the Supreme ordered of professional
3) banning donors the Supreme Court ordered of professional
4) banning Court the Supreme ordered of professional donors
5) None of these

179. Which will be the last step for the following input?
**Input:** till now the country does not have policy
1) Step III 2) Step IV 3) Step V
4) Step VI 5) None of these

180. **Input:** he will help to bring the forces together
For the above input which step will be the following?
bring forces he help will to the together
1) Step II 2) Step III 3) Step IV
4) Step V 5)None of these

181. Below are given four inputs (1), (2), (3) and (4). Which of them will be arranged the fastest? If more than one input can be arranged in the same number of steps, your answer will be (5).
1) Fractionisation is the best method to stop wastage
2) The assembly polls have been swept this year
3) Voluntary blood donation will have to be encouraged
4) By the time operation is performed
5) None of these

182. What will be the fourth step of the following input?
**Input:** He is no more a communist now.
1) a he is no more communist now
2) a communist he is no more now
3) a communist he is more no now
4) There will be no fourth step.
5) None of these

**Directions (Q 183-188): Study the following information to answer the given questions.**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

| Input | 45 | 222 | 142 | 112 | 500 | 201 | 101 | 62 |
|---|---|---|---|---|---|---|---|---|
| Step I | 45 | 62 | 142 | 112 | 500 | 201 | 101 | 222 |
| Step II | 45 | 62 | 142 | 222 | 500 | 201 | 101 | 112 |
| Step III | 45 | 62 | 142 | 222 | 500 | 112 | 101 | 201 |
| Step IV | 45 | 62 | 142 | 222 | 500 | 112 | 201 | 101 |

This is the final arrangement and step IV is the last step for this input.

183. If '400, 232, 221, 210, 200, 71, 63, 51' is an input, which of the following steps will be
63, 71, 232, 51, 221, 400, 210, 200?
1) Fourth 2) Fifth 3) Sixth
4) Seventh 5) None of these

184. Which step will give the final output from the following input?
**Input:** 441, 113, 600, 130, 111, 520, 11, 440
1) Fourth 2) Fifth 3) Sixth
4) Seventh 5) None of these

185. What will be the third step for the following input?
**Input:** 15, 25, 401, 400, 612, 102, 11, 242
1) 612, 242, 25, 15, 400, 102, 11, 401
2) 612, 242, 25, 15, 401, 102, 11, 400
3) 612, 242, 25, 15, 401, 400, 11, 102
4) 612, 242, 25, 15, 401, 400, 102, 11
5) None of these

186. If the following is the first step for an input, what will be the fifth step?
**Step I:** 18, 52, 13, 114, 212, 111, 200, 710
1) 18, 52, 710, 114, 212, 13, 111, 200
2) 18, 710, 13, 114, 212, 111, 200, 52
3) 18, 710, 52, 114, 212, 111, 200, 13
4) 18, 710, 52, 114, 212, 13, 200, 111
5) None of these

187. Following is step II for an input. What will be the first step for the input?
**Step II:** 423, 116, 104, 600, 300, 223, 220, 200
1) 423, 104, 116, 600, 300, 223, 220, 200
2) 423, 220, 104, 600, 300, 223, 116, 200
3) 200, 116, 104, 600, 300, 223, 220, 423
4) Can't be determined
5) None of these

188. Which of the following steps is the penultimate step for the following input?
**Input:** 700, 221, 261, 150, 22, 120, 02, 116
1) Fourth 2) Fifth 3) Sixth
4) Seventh 5) None of these

**Directions (Q. 189-193): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and steps of arrangement:**

**Input:** of 93 if 26 it eleven are 37
**Step I:** if 93 of 26 it eleven are 37
**Step II:** if 26 of 93 it eleven are 37
**Step III:** if 26 it 93 of eleven are 37
**Step IV:** if 26 it 37 of are eleven 93
The machine comes to a halt when the input is fully arranged as above.
Now study the logic given above and answer the questions that follow.

189. **Input:** do 94 at well she it 20.
Which of the given steps will be the last step for the given input?
1) VI 2) V 3) IV 4) III 5) None of these

190. **Input:** we 11 at 68 nice is by 23.
What is step IV for the given input?
1) at 23 by 11 68 is we nice
2) at 23 by 11 is we nice 68
3) at 11 by 23 we is nice 68

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4) at 11 by 23 is we nice 68
5) None of these

191. If step III of an input is 'as 65 by he doing 94 83 and', then which of the following will definitely be the input?
1) and 94 doing he by 83 65 as
2) and 94 doing by he 65 83 as
3) and 94 doing he by 65 83 as
4) Can't be determined
5) None of these

192. **Input:** will he 1234 is it 42 68 then.
For the above input, which step will be the following arrangement?
**Arrangement:** he is 42 it then 1234 68 will
1) III 2) VI 3) IV 4) V 5) None of these

193. If step II of a given input is 'is are when 161 16 1674 did does' then which of the following is step V of the given input?
1) is are did 16 161 1674 does when
2) is are did 16 161 1674 when does
3) is are did 161 16 1674 when does
4) Data inadequate
5) None of these

**Directions (Q. 194-200): Study the following information carefully and answer the questions given below:**

A word arrangement machine when given an in input line of words rearranges it in every step following a certain rule. Following is an illustration of an input line of words and various steps of rearrangement:

**Input:** dwell circumspect he of later does not
**Step I:** not does circumspect he of dwell later
**Step II:** of not he does dwell later circumspect
**Step III:** he circumspect later does of dwell not
**Step IV:** not dwell circumspect later does he of
**Step V:** does not later dwell he of circumspect
**Step VI:** later circumspect of dwell does he not
and so on.

Now find out appropriate step in each of the following questions following the above rule.

194. **Input:** target aim your dedicate now you in
What will be the tenth step for this input?
1) target aim your dedicate now you in
2) target dedicate your you aim now in
3) now in you aim your dedicate target
4) now in aim you your dedicate target
5) None of these

195. If step III is "down dusk all risk by tea an"
which of the following would be the input?
1) dusk tea down by all risk an
2) tea dusk down by all risk an
3) dusk all tea an risk by down
4) by an all down tea risk dusk
5) Can't be determined

196. If step XII of an input is
"daily wages you have gone hard of"
what will be the first step for the input of the given above step?
1) daily of wages gone hard you have
2) hard of gone daily you have wages
3) you wages gone hard have daily of
4) of daily wages gone hard you have
5) Can't be determined

197. If step VII of an input is
'Violet journey height for sour medium and', what step would be 'journey violet and medium for sour height'?
1) IX 2) X 3) XI 4) XII 5) None of these

198. Input: car loan get through our bank now
Which of the following is not a step from step I to step V?
1) now get loan through car our bank
2) bank now our car get through loan
3) get loan our bank through car now
4) through now get bank car our loan
5) now bank loan get through car our

199. If step IV of an input is
'well wish dwell curlish at all par'
which of the following will certainly be the input?
1) wish dwell all par curlish at well
2) wish all dwell par curlish at well
3) wish dwell all par curlish well at
4) Can't say
5) None of these

200. Input: right path they choose and get target
Which of the following will be the last step of the above input?
1) VIth 2) VIIth 3) VIIIth
4) IXth 5) None of these

**Directions (Q. 201-205): Study the following information carefully and answer the questions given below:**

When an input line of words is given to a word arrangement machine, it rearranges them following a particular rule in each step.

**Input.** own book at egg go up boy do.
**Step I.** at book own egg go up boy do.
**Step II.** at egg own book go up boy do.
**Step III.** at egg own up go book boy do.
**Step IV.** at egg own up book go boy do.
**Step V.** at egg own up book boy go do.
**Step VI.** at egg own up book boy do go.
and step VI is the last output.

201. If the 2nd step of an input is "about of work yet sky dwell under go", which of the following will be the last step?
1) IV 2) V 3) VI 4) VII 5) None of these

202. If the 3rd step of an input is
"ado egg ink stay wax rat bring cow"
which is certainly the input?
1) cow bring sty ink wax rat egg ado
2) stay bring cow ink wax rat egg ado
3) cow stay bring ink wax rat egg ado
4) Can't be determined
5) None of these

203. **Input:** Sab kuch thik hai lala bhai ab ek
Which of the following is the third step of the above input?
1) ab ek bhai hai lala sab thik kuch
2) ab ek bhai hai lala thik sab kuch

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3) ab ek bhai lala hai thik sab kuch
4) Can't be determined
5) None of these

204. **Input:** Kaka tam do and ebb in of work
Which of the following will be the fourth step?
1) and ebb in kaka tam do of work
2) and ebb do kaka tam in of work
3) and ebb in of do tam kaka work
4) and tam do kaka ebb in of work
5) None of these

205. **Input:** boy copy dent flag and end ink utmost
What will be the fifth step of the following input?
1) and end ink flag boy copy dent utmost
2) and end ink utmost boy copy dent flag
3) and end ink utmost copy boy dent flag.
4) Vth step is not possible
5) None of these

**Directions (Q. 206-212): Study the following information carefully to answer the questions given below.**

A number sorting machine when given an input of numbers, rearranges the numbers in a particular manner step by step as indicated below till all the numbers are arranged in a particular order. Given below is an illustration of this arrangement.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Input: | 83 | 145 | 172 | 422 | 248 | 36 | 121 | 99 | 92 | 540 |
| Step I: | 540 | 83 | 145 | 172 | 422 | 248 | 36 | 121 | 99 | 92 |
| Step II: | 540 | 121 | 83 | 145 | 172 | 422 | 248 | 36 | 99 | 92 |
| Step III: | 540 | 121 | 172 | 83 | 145 | 422 | 248 | 36 | 99 | 92 |
| Step IV: | 540 | 121 | 172 | 422 | 83 | 145 | 248 | 36 | 99 | 92 |
| Step V: | 540 | 121 | 172 | 422 | 36 | 83 | 145 | 248 | 99 | 92 |
| Step VI: | 540 | 121 | 172 | 422 | 36 | 92 | 83 | 145 | 248 | 99 |
| Step VII | 540 | 121 | 172 | 422 | 36 | 92 | 145 | 83 | 248 | 99 |

(This is the final arrangement and step VII is the last step for this input.)

206. If following is the fifth step of an input, what will be the third step?
**Step V:** 212 32 81 25 34 726 86 98 455
1) 212 32 81 455 25 34 726 86 98
2) 212 32 81 25 726 34 86 98 455
3) 212 32 81 34 726 86 98 455 25
4) Can't be determined
5) Third step will be the same as step V.

207. How many steps will be required ti get the final output for the following input?
**Input:** 69 54 71 184 624 73 98 89 102 31
1) 5 2) 6 3) 7 4) 8 5) None of these

208. If third step of an input is
21 13 22 25 52 91 18 23 51 17
then which of the following steps will be
21 13 22 51 23 17 18 25 52 91
for the same input?
1) 6 2) 7 3) 8 4) 9 5) None of these

209. Which of the following will be the third step for the following input?
**Input:** 12 24 48 60 72 84 96 108 120 132
1) 60 108 120 12 24 48 72 84 96 132
2) 60 108 12 24 48 72 84 96 120 132
3) 60 108 120 24 12 48 72 84 96 132
4) 60 108 24 12 48 72 84 96 120 132
5) Can't be determined

210. If the second step for an input is as given below, what will be the fifth step for the same input?
**Step II:** 67 238 444 98 445 734 925 862 96 69
1) 67 238 444 98 734 445 925 862 96 69
2) 67 238 444 445 98 734 925 862 96 69
3) 67 238 444 69 98 445 734 925 862 96
4) Fifth step is not possible
5) None of these

211. What will be the last step for the following input?
**Input:** 117 104 91 39 26 13 52 78 65 130
1) 130 117 104 91 78 65 52 39 26 13
2) 104 130 13 117 91 52 39 26 65 78
3) 104 130 13 117 91 52 26 39 65 78
4) 13 26 39 52 65 78 91 104 117 130
5) None of these

212. What will the input be definitely if step IV is as follows?
**Step IV:** 105 210 21 42 63 84 126 147 168 189
1) 105 84 63 42 21 147 126 168 189 210
2) 126 105 84 63 42 21 147 168 189 210
3) 210 189 168 147 126 105 84 63 42 21
4) 21 42 63 84 105 126 147 168 189 210
5) Can't be determined

**Directions (Q. 213-217): A number rearrangement machine when given an input line of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement:**

**Input:** 676 729 841 625 784 529 576
**Step 1:** 529 576 784 676 729 625 841
**Step 2:** 841 676 576 529 784 729 625
**Step 3:** 729 625 784 841 676 529 576
**Step 4:** 576 841 625 729 784 676 529
**Step 5:** 676 529 784 576 841 729 625
And so on.

As per the rule followed in above steps, find out the appropriate step for the given input or vice versa in the following questions:

213. **Input:** 324 289 144 256 361 441 400
which of the following step would be
441 256 289 144 361 400 324
1) Step I 2) Step V 3) Step VI
4) Step VIII 5) None of these

214. If Step XI of an input is
324 441 289 256 361 144 400
then what will be step XIII?
1) 361 144 289 400 256 324 441
2) 144 361 289 400 256 324 441
3) 441 361 289 400 256 324 144

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4) 361 144 289 256 400 324 144
5) None of these

215. If step X of an input is
676 121 196 225 169 156 625
then what will be step VI?
1) 196 256 225 121 169 625 676
2) 121 225 256 196 676 625 169
3) 256 225 121 196 169 625 676
4) 196 121 225 256 169 625 676
5) None of these

216. **Input:** 111 112 114 115 113 117 224
Which of the following will be Vth step for this input?
1) 115 224 117 111 113 114 115
2) 111 117 113 224 114 112 115
3) 115 112 114 224 113 117 111
4) 224 114 112 115 111 117 113
5) None of these

217. If step VI of an Input is 378 446 644 877 992 880 740, which of the following would definitely be the input?
1) Can't be determined
2) 877 740 880 378 992 644 446
3) 644 446 992 877 740 378 880
4) 446 644 992 877 740 378 880
5) None of these

**Directions (Q. 218-222): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** tour bask door 64 69 24 in and
**Step I:** tour and bask door 64 69 24 in
**Step II:** tour and 69 bask door 64 24 in
**Step III:** tour and 69 in bask door 64 24
**Step IV:** tour and 69 in 64 bask door 24
**Step V:** tour and 69 in 64 24 bask door
**Step VI:** tour and 69 in 64 24 door bask

and Step VI is the last output.

As per the rule followed in the above steps find out the answer to each of the following questions :

218. If step II of an input is "98 12 tea milk ghee 72 89 enjoy" which of the following is the last step ?
1) 98 12 89 ghee enjoy tea 72 milk
2) 98 12 89 ghee enjoy tea milk 72
3) 98 12 89 ghee tea milk 72 enjoy
4) 98 12 89 tea milk ghee 72 enjoy
5) None of these

219. If the IVth step of an input is
drinks 18 71 egg of ink 27 down
then which of the following will definitely be the second step of the input ?
1) drinks 18 of egg 71 ink 27 down
2) drinks 18 egg of 71 ink 27 down
3) drinks 18 71 egg of ink 27 down
4) Can't be determined
5) None of these

220. **Input:** he 129 37 she bit 69 96 all
Which of the following will be third step?
1) 129 he 37 she bit 69 96 all
2) 129 he 96 37 she bit 69 all
3) 129 he 96 all 69 37 she bit
4) 129 he 96 all 37 she bit 69
5) None of these

221. **Input:** 07 at 208 dusk down or 36 63
Which of the following steps would be 208 07 63 at down dusk or 36?
1) III 2) IV 3) VI
4) Can't be determined 5) None of these

222. If the last step of an input is
this 2 54 is task hard that 36
then which of the following is the Input?
1) Can't be determined
2) task hard 2 is 54 that 36 this
3) hard task 2 is 54 that 36 this
4) hard 2 task is 54 that 36 this
5) None of these

**Directions (Q. 223-227): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 18, 7, 45, 23, 21, 91, 12, 16, 19
**Step I:** 7, 18, 45, 23, 21, 91, 12, 16, 19
**Step II:** 7, 19, 45, 23, 21, 91, 12, 16, 18
**Step III:** 7, 19, 23, 45, 21, 91, 12, 16, 18
**Step IV:** 7, 19, 23, 21, 45, 91, 12, 16, 18

This is the final arrangement and step IV is the last step for the given in put.

223. How many steps will be required to get the final output from the following input?
**Input:** 117, 63, 11, 18, 93, 4, 6, 13, 17
1) seven 2) eight 3) nine
4) less than six 5) None of these

224. What would be fourth step for the following input?
**Input:** 91, 92, 93, 94, 95, 96, 97, 83, 89
1) 83, 89, 97, 91, 93, 95, 96, 94, 92
2) 83, 89, 97, 91, 93, 96, 95, 94, 92
3) 83, 89, 97, 91, 95, 96, 93, 94, 92
4) Fourth step is not possible because third step finally arranges the given input.
5) None of these

225. If following is the second step of an input, what will be the fourth step?
**Step II:** 53, 59, 68, 61, 35, 45, 25, 72, 76
1) 53, 59, 61, 68, 35, 45, 25, 72, 76
2) 53, 59, 61, 25, 35, 45, 68, 72, 76
3) 53, 59, 61, 25, 35, 45, 72, 68, 76
4) Can't be determined
5) None of these

226. Which of the following is the last step for the following input?
**Input:** 36, 51, 81, 99, 28, 24, 29, 43, 79
1) 29, 43, 51, 79, 81, 99, 24, 28, 36
2) 29, 43, 79, 24, 28, 36, 51, 81, 99
3) 29, 43, 79, 81, 51, 99, 24, 28, 36
4) 29, 43, 79, 51, 81, 99, 24, 28, 36
5) None of these

227. Following is the step III for an input. What will be the second step for the input?

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**Step III:** 19, 29, 31, 44, 64, 68, 75, 91, 99
1) 19, 29, 44, 31, 64, 68, 75, 91, 99
2) 19, 29, 68, 44, 64, 31 75, 91, 99
3) 19, 29, 64, 44, 31, 68, 75, 91, 99
4) Can't be determined
5) None of these

**Directions (Q. 228-234): Study the following information to answer the questions given below:**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of the input and steps of rearrangement.

**Input:** 42 69 18 86 74 47 82 79
**Step I:** 96 24 68 81 74 47 97 28
**Step II:** 24 96 68 81 28 74 47 97
**Step III:** 24 68 96 81 28 47 74 97
**Step IV:** 24 68 81 96 28 47 74 97
**Step V:** 86 42 69 18 74 82 79 47

This is the final arrangement and step V is the last step for this input.

228. What will be the input if step I is as follows?
**Step I:** 23 29 39 91 12 93 28 18
1) Can't be determined
2) 92 32 19 93 39 21 81 82
3) 92 32 93 19 39 21 81 82
4) 92 32 19 93 39 21 82 81
5) None of these

229. Below is given **first step** for an input. What will be its third step?
**Step I:** 28 84 16 42 98 32 56 14
1) 16 28 42 84 14 32 56 98
2) 16 28 84 42 14 98 32 56
3) 16 28 42 84 14 32 98 56
4) 82 61 48 24 23 41 89 65
5) None of these

230. If the **first step** for an input is "12 36 72 84 24 96 94 48" then which of the following steps will be "63 21 48 27 84 42 69 49"
1) Input 2) Step III 3) Step IV
4) Step V 5) None of these

231. What should be the last step for the following input?
**Input:** 24 48 61 82 23 41 89 65
1) Can't be determined
2) 82 24 48 61 23 89 65 41
3) 82 61 24 48 23 41 89 65
4) 82 61 48 24 23 41 89 65
5) None of these

232. How many steps will be required to get the final output from the following input?
**Input:** 26 78 39 65 13 91 52 99
1) Three 2) Four 3) Five 4) Six 5) None of these

233. What would be the last step for an input whose penultimate step is as follows?
**Penultimate step:** 12 14 16 18 24 26 27 28
1) 41 21 81 61 62 42 82 72
2) 21 41 61 82 42 62 72 82
3) 21 41 81 61 42 62 72 82
4) Can't say
5) None of these

234. Following is the **last step** for an input:
"41 21 81 61 62 42 82 72"
After how many steps does the above last step come?
1) Three 2) Four 3) Five 4) Can't say 5) None of these

**Directions (Q. 235-240): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Illustration - 1**

**Input:** who at an in join does went late
**Step I:** does who at an in join went late
**Step II:** does join who at an in went late
**Step III:** does join late who at an in went
**Step IV:** does join late went who at an in
**Step V:** does join late went who an at in

and step V is the last step for the given input.

**Illustration - 2**

**Input:** ill were he up onion then love amuck
**Step I:** amuck ill were he up onion then love
**Step II:** amuck ill onion were he up then love
**Step III:** amuck ill onion up were he then love
**Step IV:** amuck ill onion up he were then love
**Step V:** amuck ill onion up he love were then
**Step VI:** amuck ill onion up he love then were

and step VI is the last step for the given input.

235. What will be the sixth step of the following input?
**Input:** minor out of each for also the bank
1) also bank each for minor of out the
2) also each of out bank for minor
3) bank for minor the also each out of
4) bank for minor the also each of out
5) None of these

236. Fourth step of an input is as follows:
**Step IV:** areas in or chain civil food cold post
Which of the following word might be the first element/ word of the input for step IV?
1) chain 2) cold 3) civil 4) post 5) in

237. How many steps will be required to get the final output from the following input?
**Input:** who nut cream page for after and on
1) Three 2) Four 3) Five 4) Six 5) None of these

238. Below is given the third step of an input. What will be its second step?
**Step III:** an export it do day year week month
1) an export do day year week month it
2) an export it day do year week month
3) an export do it day year week month
4) Can't say
5) None of these

239. Below is given the first step of an input. What will be the last three words/elements of the input?
**Step I:** an emergence needs to invoke own states now
1) own states now
2) states now an
3) invoke own states
4) Can't say
5) None of these

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240. Following is the third step of an input. What will be its fifth step?
**Step III:** in India intelligent citizens read books with zeal
1) Can't say
2) in India intelligent books citizens read with zeal
3) in India intelligent books read citizens with zeal
4) Fifth step is not possible
5) None of these

**Directions (Q. 241-246): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 452, 523, 355, 834, 967, 530, 797
**Step I:** 530, 523, 355, 834, 967, 452, 797
**Step II:** 530, 523, 452, 834, 967, 355, 797
**Step III:** 530, 523, 452, 355, 967, 834, 797
**Step IV:** 530, 523, 452, 355, 834, 967, 797
Step IV is the last step for the given input.

241. If '745, 526, 638, 898, 968, 572, 243' is the input, which of the following steps will be '243, 526, 572, 745, 968, 638, 898'?
1) Fourth 2) Third 3) Second
4) First 5) None of these

242. How many steps will be required to get the final output from the following input?
**Input:** 436, 572, 343, 697, 254, 123, 758
1) 5 2) 4 3) 3 4) 6 5) None of these

243. For the given input, which of the following will be the third step?
**Input:** 353, 423, 725, 576, 514, 535, 628
1) 423, 353, 576, 725, 514, 535, 628
2) 423, 514, 353, 725, 576, 535, 628
3) 423, 514, 353, 576, 725, 535, 628
4) 423, 514, 353, 535, 725, 576, 628
5) None of these

244. If following is the second step for an input, what will be the fifth step?
**Step II:** 521, 325, 443, 645, 967, 634, 788
1) 521, 325, 443, 645, 634, 967, 788
2) 521, 325, 443, 634, 645, 967, 788
3) 521, 325, 443, 634, 967, 645, 788
4) There will be no fifth step.
5) None of these

245. Following is the step III for an input. What will be the first step for the input?
**Step III:** 216, 325, 461, 756, 635, 445, 844
1) 756, 461, 216, 635, 325, 844, 445
2) 461, 756, 635, 216, 325, 844, 445
3) 445, 844, 325, 216, 635, 756, 461
4) Can't be determined
5) None of these

246. Which of the following is the last step for the following input?
**Input:** 464, 532, 483, 425, 583, 342, 846
1) 342, 532, 425, 464, 483, 583, 846
2) 342, 532, 425, 483, 464, 583, 846
3) 342, 532, 425, 464, 583, 483, 846
4) 342, 532, 425, 483, 583, 464, 846
5) None of these

**Directions (Q. 247-252): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** The foreign hand is back in action
**Step I:** hand foreign the in action is back
**Step II:** the in hand foreign back is action
**Step III:** is action back foreign hand the in
**Step IV:** back action is the in foreign hand

**And so on for subsequent steps. You have to find out the logic and answer the questions given below:**

247. **Input:** We generally do not focus on them.
For the above input, which step will be the following arrangement?
**Arrangement:** do on generally not we them focus.
1) Step VIII 2) Step VI 3) Step VII
4) Step V 5) None of these

248. If **Step V** reads "designer suit reflect not just class but", what will be the middle three words of **step I**?
1) suit but not
2) just class reflect
3) designer suit but
4) class but suit
5) None of these

249. If **Step II** reads "these are clouds over the Indian mind", what would be the arrangement for **Step VIII**?
1) clouds are over Indian these mind the
2) over are clouds mind the Indian these
3) over are Indian clouds the mind these
4) over Indian clouds are the mind these
5) None of these

250. If the given input is "not only has he stolen the hearts" what will be **Step V**?
1) only the has hearts stolen he not
2) he not stolen hearts has only the
3) he not hearts stolen has the only
4) stolen hearts he not the only has
5) None of these

251. If **Step VII** reads "let us love respect protect these birds", what will be the arrangement for the **Input**?
1) protect respect let love birds us these
2) respect love let protect birds us these
3) protect love let respect us birds these
4) respect protect let love birds us these
5) None of these

252. **Input:** make our planet look beautiful and lively. For the above input, which step will have "make and our planet"

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as the last four words?
1) Step II 2) Step III 3) Step IV
4) There is no such group of words
5) None of these

**Directions (Q. 253-258): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** he is young energetic and good looking fellow
**Step I:** fellow he is looking good young energetic and
**Step II:** and fellow he energetic young is looking good and so on ....

253. If the third step of an input is 'Shaiamak Davar is the man behind Hrithik steps', what will be the sixth step for the input?
1) steps Shaiamak Davar Hrithik behind is the man
2) is behind man the Shaiamak steps Hrithik Davar
3) behind man steps Hrithik Davar Shaiamak the is
4) man steps Shaiamak the is Davar Hrithik behind
5) None of these

254. If step II of a given input is 'Raju Chacha is whole new experience for Bollywood', what will be **step V** for the input?
1) experience new Bollywood for Chacha Raju whole is
2) experience Bollywood new for Chacha Raju whole is
3) Raju Chacha Bollywood for is whole new experience
4) experience Raju new whole Chacha Bollywood for is
5) None of these

255. What will be the input for the following **fifth step**?
**Step V:** I have not been told any thing officially
1) any told officially thing have I been not
2) officially I have thing any not been told
3) told officially I been not have thing any
4) Can't be determined
5) None of these

256. After which step will the machine start repeating the input and onward steps?
1) V 2) VI 3) VII
4) Repetition is not possible 5) None of these

257. **Input:** Composer and singer Edwin has come out with Which of the following steps would be 'singer come has Edwin composer with out and'?
1) Step 3 2) Step 4 3) Step 5
4) Step 2 5) None of these

258. Which of the following is not the right arrangement for steps of the given input?
**Input:** but Sophiya landed role a in snip accidentally
1) Sophiya landed in snip accidentally a role but
2) in a accidentally snip Sophiya but role landed
3) landed a in role but accidentally snip Sophiya
4) accidentally but Sophiya snip in landed role a
5) All arrangements are valid

**Directions (Q. 259-263): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input**: 207, 59, 324, 23, 135, 173, 312
**Step I:** 207, 59, 312, 23, 135, 173, 324
**Step II:** 23, 59, 312, 207, 135, 173, 324
**Step III:** 23, 59, 173, 207, 135, 312, 324
**Step IV:** 23, 59, 135, 207, 173, 312, 324
**Step V:** 23, 59, 135, 173, 207, 312, 324
This is the final arrangement and step V is the last step for this input.

259. Following is the step III for an input. What will be the first step for the input?
**Step III:** 12, 315, 48, 223, 142, 419, 567
1) 315, 12, 48, 419, 567, 142, 223
2) 223, 315, 12, 48, 142, 567, 419
3) 48, 315, 12, 142, 419, 223, 567
4) Can't be determined
5) None of these

260. If 91, 326, 147, 271, 193, 371, 416 is the second step of an input, which of the following steps will be 91, 147, 193, 271, 326, 371, 416?
1) Fourth 2) Fifth 3) Third
4) Can't be determined 5) None of these

261. Which of the following is the last step for the following input?
**Input:** 310, 105, 45, 241, 417, 36, 281
1) 36, 45, 281, 105, 241, 310, 417
2) 36, 45, 105, 281, 241, 310, 417
3) 36, 45, 105, 241, 281, 310, 417
4) 45, 105, 36, 241, 281, 310, 417
5) None of these

262. How many steps will be required to get the final output from the following input?
**Input:** 18, 93, 11, 43, 113, 65, 8, 58
1) VI 2) V 3) II 4) III 5) None of these

263. If following is the third step for an input, what will be the fifth step?
**Step III:** 20, 27, 85, 165, 133, 47, 185, 220
1) 20, 27, 85, 133, 165, 47, 185, 220
2) 20, 27, 47, 85, 133, 165, 185, 220
3) 20, 27, 47, 165, 133, 85, 185, 220
4) Can't be determined
5) None of these

**Directions (Q. 264-268): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** television news is more newsy than ever
**Step I:** ever is news more newsy than television
**Step II:** is ever more news newsy television than
**Step III:** than more ever news newsy television is
**Step IV:** more than news ever newsy is television

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and so on till step VII.

As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.

264. Given the following
**Input:** drink with your favourite cup of joy
what step will be the following arrangement?
**Arrangement:** your joy drink of cup favourite with
1) VI 2) VII 3) V 4) IV 5) None of these

265. If step VI of a given input be 'did the stock index rise further more', what would be the input?
1) more stock further did rise the index
2) more stock further did rise index the
3) stock more did further rise index the
4) the did more further rise index stock
5) None of these

266. If step II of a given input be 'is it been quite rewarding so far', what is the seventh step of that input?
1) it is so far rewarding been quite
2) is it far so rewarding quite been
3) is it so far rewarding been quite
4) quite so it far rewarding been is
5) None of these

267. Given the input, what would be step V of the input?
**Input:** I am sure people will like music.
1) am I music like will people sure
2) I am like music will sure people
3) I like am music will people sure
4) like I am music will people sure
5) None of these

268. If step IV of a given input be 'what sets this film apart from other', what is step I of that input?
1) other this sets from film what apart
2) this other sets from apart what film
3) film this from what apart sets other
4) apart from film what sets other this
5) None of these

**Directions (Q. 269-273): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** when it comes of the high skies
**Step I:** comes when it the high skies of
**Step II:** the comes when it skies of high
**Step III:** when the comes skies of high it
and so on.

As per the rule followed in the above steps, find out the appropriate answer in the following questions.

269. If Step II of an input is 'I am off to Goa with friends', what would be step VII?
1) Goa I friends with am to off
2) friends I Goa off with am to
3) with Goa friends I to off am
4) Goa friends I with am to off
5) None of these

270. **Input:** he was going to be in town
Which of the following will be the 4th step for this input?
1) he be going town to in was
2) town he be going in was to
3) be town he in was to going
4) town be he going in was to
5) None of these

271. If Step IV of an input is 'enjoy a well planned new year night', what would be the VIIIth step?
1) enjoy new well night planned year a
2) new enjoy night well year a planned
3) night enjoy new well year a planned
4) enjoy night new well year a planned
5) None of these

272. **Input:** his sister left him alone in park
Which of the following steps would be 'in alone park his him left sister'?
1) Step V 2) Step VI 3) Step VII
4) Step VIII 5) None of these

273. If Step V of an input is 'I have two dog red and black', which of the following would definitely be the input?
1) Can't be determined
2) two black red and I have dog
3) red two black and dog I have
4) two red black and I dog have
5) None of these

**Directions (Q. 274-278): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** 47 29 15 20 13 92 86 26
**Step I:** 13 47 29 15 20 92 86 26
**Step II:** 13 15 47 29 20 92 86 26
**Step III:** 13 15 29 47 20 92 86 26
**Step IV:** 13 15 29 47 20 26 92 86
**Step V:** 13 15 29 47 20 26 86 92
This is the final arrangement and step V is the last step for this input.

274. How many steps will be required to get the final output from the following input?
**Input:** 78 64 136 11 65 21 43 152
1) 7 2) 6 3) 5 4) 4 5) None of these

275. Which of the following is the last step for the following input?
**Input:** 186 17 56 111 37 120 9 105
1) 9 17 37 111 105 56 186 120
2) 9 17 37 105 111 56 120 186
3) 9 17 37 105 56 111 120 186
4) 9 17 37 56 105 111 120 186
5) None of these

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276. If '31 53 106 87 73 22 64 48' is the second step of an input, which of the following steps will be '31 53 73 87 22 48 106 64'?
1) Fourth 2) Fifth 3) Sixth
4) Can't be determined 5) None of these

277. Following is the fourth step for an input. What will be the first step for the input?
**Step IV:** 7 13 17 6 10 26 16 28 30
1) 7 6 10 13 17 26 16 28 30
2) 7 10 16 17 13 6 26 28 30
3) 7 13 10 26 6 17 16 28 30
4) Can't be determined
5) None of those

278. If following is the third step for an input, what will be the sixth step?
**Step III:** 13 19 29 106 84 97 73 24
1) 13 19 29 73 97 24 84 106
2) 13 19 29 73 97 106 84 24
3) 13 19 29 73 106 84 97 24
4) 13 29 19 73 97 24 106 84
5) None of these

**Directions (Q. 279-283): A word-number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** huge elephant 39 dog 57 42 small 23
**Step I:** small huge elephant 39 dog 57 42 23
**Step II:** small 23 huge elephant 39 dog 57 42
**Step III:** small 23 huge 39 elephant dog 57 42
**Step IV:** small 23 huge 39 elephant 42 dog 57
Step IV is the last step of the given input.

As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.

279. If step V of a given input be 'Ranchi 8 Nagpur 92 Mumbai 103 Delhi 100' what would be the input?
1) 8 Nagpur Mumbai 103 92 Ranchi Delhi 100
2) Mumbai 103 Nagpur 8 92 Ranchi Delhi 100
3) Ranchi Mumbai 92 Nagpur 8 103 Delhi 100
4) Can't be determined
5) None of these

280. If step II of a given input be 'Zoo 5 dead 20 gate 10 at 12' what would be the last step of that input?
1) Zoo 5 gate 10 dead 12 at 20
2) Zoo 5 gate 10 dead 12 20 at
3) Zoo 5 gate 10 dead 20 at 12
4) Zoo 5 gate dead 10 12 at 20
5) None of these

281. In how many steps can the following input be fully arranged?
**Input:** Mission impossible 2 13 7 oscar winner 19.
1) IV 2) V 3) VI 4) VII 5) None of these

282. What would be the penultimate step for the following input?
**Input:** Seven Razor Fifty 50 12 7 One 1
1) Seven 1 Razor 7 One 12 50 Fifty
2) Seven 1 Razor 7 One 12 Fifty 50
3) Seven 1 Razor 7 One Fifty 50 12
4) Seven 1 Razor 7 One 50 Fifty 12
5) None of these

283. The second step of a given input is "where 9 here 18 there 12 near 17". What will be **Step V** for the given input?
1) Where 9 there 12 here 18 near 17
2) Where 9 there 12 near here 18 17
3) Where 9 there 12 near 17 here 18
4) Where 9 there here 18 12 near 17
5) Can't be determined

**Directions (Q. 284-289): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**
**Input:** The comprehensive material on commonsense reasoning in your hand.
**Step I:** Comprehensive the material on commonsense hand reasoning in your.
**Step II:** Comprehensive material the on commonsense hand in reasoning your.
**Step III:** Comprehensive material on the commonsense hand in reasoning your.
Step III is the last step of the given input.

284. What will be the third step of the following input?
**Input:** I went to college to meet my dearest friend
1) college I to went to dearest friend meet my
2) college I went to to dearest meet my friend
3) college I went to to dearest friend my meet
4) No third step
5) None of these

285. If the third step of an input is 'Bihar is nearby to Bengal and besides Madya Orissa', then what will be the input?
1) nearby is Bihar to Bengal besides Madya and Orissa
2) is nearby to Bihar Bengal and Madya besides Orissa
3) to Bihar is nearby Bengal and besides Orissa Madya
4) Can't be determined
5) None of these

286. What would be the penultimate step for the following input?
**Input:** Sohan Shyam Ramesh and Sudha are my good friend
1) and Ramesh Shyam Sohan Sudha are friend good my
2) and Ramesh Shyam Sohan Sudha are friend my good
3) and Ramesh Sohan Shyam Sudha are friend good my
4) and Ramesh Sohan Shyam Sudha are friend my good
5) None of these

287. In how many steps can the following input be fully arranged?

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**Input:** The expose also links the PMO to a sleaze.
1) 2 2) 3 3) 4
4) 1 5) The input is already arranged

288. The first step of a given input is "and the country's political defence establishments were rocked on". What will be step III for the given input?
1) and country's political the defence establishments on rocked were.
2) and country's the political defence establishments on were rocked.
3) and country's political the defence establishments rocked on were.
4) and country's the political defence establishments on rocked were.
5) None of these

289. What is the maximum number of steps possible for a given input of eleven words?
1) 9 2) 8 3) 3 4) 4 5) None of these

**Directions (Q. 290-294): A number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of the arrangement:**
**Input:** an artist domain of the shows cover impression
**1st Step:** impression an artist domain of the shows cover
**2nd Step:** impression artist an domain of the shows cover
**3rd Step:** impression artist domain an of the shows cover
**4th Step:** impression artist domain cover an of the shows
**5th Step:** impression artist domain cover shows an of the
and so on, and once all words get arranged, the arranged sequence will repeat infinitely.

290. **Input:** in this rounded book to most answer figures.
Which of the following will be the fourth step for this input?
1) rounded answer to most book in this figures
2) figures rounded to most book in this answer
3) figures rounded answer book in this to most
4) figure rounded answer book most in this to
5) None of these

291. **Input:** "the accidentally face had Samurai caught hero tragic".
Which of the following will be the sixth step for this input?
1) the had hero tragic caught Samurai accidentally
2) accidentally Samurai caught tragic face hero had the
3) accidentally Samurai caught tragic hero had face the
4) accidentally Samurai caught tragic hero face had the
5) accidentally Samurai caught tragic face hero the had

292. If the fourth step of an input is "everyday parabolic familiar example object motion air", what would be the second step of the input?
1) everyday familiar example parabolic motion air object
2) everyday parabolic example familiar motion air object
3) everyday parabolic motion example air familiar object
4) Can't be determined
5) None of these

293. If the second step of an input is "satisfactorily gravitation solar therefore precisely dimensions planetary", what will be the fifth step?
1) satisfactorily gravitation dimensions solar precisely planetary therefore
2) satisfactorily gravitation dimensions precisely planetary therefore solar
3) satisfactorily gravitation dimensions precisely therefore planetary solar
4) satisfactorily gravitation dimensions planetary precisely solar therefore
5) satisfactorily gravitation therefore dimensions planetary precisely solar

294. **Input:** "to add would anything like more you"
What will be the tenth step of this input?
1) anything would add more like you to
2) anything would you like to add more
3) anything would like more add you to
4) anything would more like you add to
5) None of these

**Directions (Q. 295-301): Study the following information carefully to answer the questions given below:**

A number sorting machine, when given an input of numbers, rearranges the numbers in a particular manner step by step as indicated below, till all the numbers are arranged in a particular order. Given below is an illustration of this arrangement.

**Input:** 45, 163, 53, 19, 81, 139, 18, 48, 73, 96
**Step I:** 18, 45, 163, 53, 19, 81, 139, 48, 73, 96
**Step II:** 18, 45, 53, 19, 81, 139, 48, 73, 96, 163
**Step III:** 18, 19, 45, 53, 81, 139, 48, 73, 96, 163
**Step IV:** 18, 19, 45, 53, 81, 48, 73, 96, 139, 163
**Step V:** 18, 19, 45, 48, 53, 81, 73, 96, 139, 163
**Step VI:** 18, 19, 45, 48, 53, 73, 81, 96, 139, 163
(This is the final arrangement and VI is the last step for this input.)

295. If the following is the sixth step of an input, what will be the second step?
**Step VI:** 21, 35, 48, 92, 79, 89, 52, 62, 103, 115
1) 21, 35, 48, 92, 79, 89, 52, 62, 103, 115
2) 21, 35, 92, 79, 89, 48, 52, 62, 103, 115
3) 21, 35, 48, 52, 92, 89, 42, 62, 103, 115
4) Can't be determined
5) None of these

296. How many steps will be required for getting the final soutput for the following input?
**Input:** 111, 81, 62, 40, 63, 36, 173, 29, 141, 74
1) 5 1) 6 3) 7 4) 8 5) None of these

297. Which of the following will be the 4th step for the following input?
**Input:** 56, 72, 94, 148, 36, 16, 213, 62, 89, 129
1) 16, 36, 56, 72, 94, 62, 89, 129, 148, 213
2) 16, 36, 56, 62, 72, 94, 89, 129, 148, 213
3) 16, 36, 56, 72, 62, 94, 89, 129, 148, 213

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4) 16, 36, 56, 62, 72, 89, 94, 129, 148, 213
5) None of these

298. If the second step for an input is as given below, what will be the fifth step for the same input?
**Step II:** 29, 52, 47, 91, 66, 142, 111, 193
1) 29, 47, 52, 66, 91, 111, 142, 193
2) 29, 47, 52, 91, 66, 111, 142, 193
3) 29, 47, 52, 66, 111, 91, 142, 193
4) 29, 47, 66, 52, 111, 91, 142, 193
5) None of these

299. What will be step II for the following input?
**Input:** 50, 69, 19, 101, 88, 61, 26, 74
1) 19, 26, 50, 69, 61, 101, 88, 74
2) 19, 50, 69, 88, 61, 26, 74, 101
3) 19, 50, 69, 61, 26, 74, 88, 101
4) 19, 26, 50, 69, 99, 49, 74, 101
5) None of these

300. What will be the last step for the following input?
**Input:** 172, 77, 49, 91, 90, 160, 41, 83
1) 41, 49, 77, 90, 83, 91, 160, 172
2) 41, 49, 77, 83, 91, 90, 160, 172
3) 41, 49, 77, 83, 90, 91, 160, 172
4) 41, 49, 77, 83, 90, 160, 91, 172
5) None of these

301. What will be step V for the following input?
**Input:** 66, 97, 203, 117, 154, 72, 51, 83
1) 51, 66, 72, 97, 117, 83, 154, 203
2) 51, 66, 72, 83, 97, 117, 154, 203
3) 51, 66, 97, 72, 83, 117, 154, 203
4) Can't be determined
5) None of these

**Directions (Q. 302-306): A number arrangement machine, when given an input line of numbers, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement.**

**Input:** 17, 29, 33, 37, 43, 11, 98
**Step 1:** 8, 11, 6, 10, 7, 2, 17
**Step 2:** 8, 2, 6, 1, 7, 2, 8
**Step 3:** 60, 0, 32, -3, 45, 0, 60
**Step 4:** 6, 0, 5, -3, 9, 0, 6
**Step 5:** 7, 4, 14, 13, 34, 36, 55
**Step 6:** 17, 14, 24, 33, 44, 46, 65
**Step 7:** 8, 5, 6, 6 8, 10, 11

302. What will be the 5th step of the following input?
**Input:** 14, 19, 21, 38, 43, 62, 81
1) 2, 4, 9, 11, 14, 15, 11
2) 31, 42, 13, 18, 22, 41
3) 4, 1, 14, 16, 34, 42, 63
4) 7, 61, 33, 14, 28, 23, 29
5) None of these

303. The second step of a given input is 5, 6, 4, 1, 9, 1, 8
What will be step 7 for the input?
1) 5, 5, 3, -3, 4, 8, 1
2) 4, 10, 4, 8, 1, 9, 7
3) 5, 10, 4, 5, 12, 7, 10
4) 1, 4, 3, 7, 9, 11, 2
5) None of these

304. In how many steps would the following arrangement be yielded by the given input?
**Input:** 11, 17, 22, 34, 8, 25, 14
**Arrangement:** 1, 1, 9, 7, 4, 9, 7
1) 3 2) 5 3) 7 4) 6 5) None of these

305. What would be 4th step of the input?
**Input:** 18, 11, 24, 39, 15, 61
1) Data inadequate
2) 17, 0, 5, 36, 44, 11
3) 77, 0, 32, 5, 32, 45
4) 21, 42, 11, 32, 6, 0
5) None of these

306. What will be the input for the following 4th step?
**Step 4:** 8, 7, 5, 6, 2, 1, 3
1) 62, 31, 43, 51, 21, 13, 17
2) 44, 43, 41, 51, 11, 10, 21
3) Can't be determined
4) 62, 34, 23, 33, 37, 31, 47
5) None of these

**Directions (Q. 307-311): An arrangement machine when given an input line of numbers, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement.**

**Input:** 7 9 14 13 12 8 5
**1st step:** 7 9 5 13 12 8 14
**2nd step:** 5 7 9 13 12 8 14
**3rd step:** 5 7 9 8 12 13 14
**4th step:** 5 7 8 9 12 13 14

Since the digits are already arranged in ascending order the machine stops after this step. [Otherwise it may carry on its logic unless the digits are arranged in ascending order.]

Study the logic followed and answer the questions that follow.

307. Input: 6, 10, 18, 72, 8, 5, 24
What will be the 3rd step?
1) 5 6 10 18 8 24 72
2) 5 6 8 10 18 24 72
3) 6 5 8 10 18 24 72
4) 5 10 6 18 8 24 72
5) None of these.

308. Input: 5 35 25 20 15 7 6
What will be the last step?
1) 5 7 6 20 25 15 35
2) 5 7 6 20 15 25 35
3) 5 6 7 20 15 25 35
4) 5 6 7 15 20 25 35
5) None of these

309. Input: 30 20 18 12 9 6 5
In how many steps will this series be rearranged?
1) 3 2) 5 3) 6 4) 4 5) 7

310. What is the maximum number of steps that the machine can take to rearrange a seven-term series?
1) 4 2) 5 3) 6 4) 7 5) Can't say

311. Which of the following inputs will take the maximum number of steps for reorganising?
1) 2 4 3 14 21 9 28
2) 8 6 1 2 5 4 3
3) 5 1 15 6 9 4 20
4) 2 6 12 16 18 9 10
5) 8 6 7 9 5 10 4

**Directions (Q. 312-316): A word arrangement machine, when given an input line of words, rearranges them**

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**in the dictionary order by following a particular rule. This rule is illustrated by the following input which is rearranged by the machine in several steps.**

**Input:** be brave back bore bark box
**1st step:** be box back bore bark brave
**2nd step:** be bark back bore box brave
**3rd step:** back bark be bore box brave

Understand the rule by following the patterns carefully and then answer the questions that follow:

312. **Input:** She looked smilingly at my shyness.
What will be the third step of this input?
1) At my she looked shyness smilingly
2) At my looked she shyness smilingly
3) At looked my she shyness smilingly
4) At looked my shyness she smilingly
5) None of these

313. **Input:** We came to the cottage nearby.
How many steps would be performed for this input?
1) 2 2) 3 3) 4 4) 5 5) None of these

314. If "Go film a I to today" is the third step, which of the following is most definitely the input?
1) I go to a film today 2) Today I go to a film
3) Today I to a film go 4) Today to a film I go
5) To a film I go today

315. **Input:** She comes to a lonely spot.
What will be the second step?
1) She comes lonely a spot to
2) She comes a lonely spot to
3) She a comes to lonely spot
4) She comes to lonely a spot
5) None of these

316. **Input:** Give me the fire of love.
How many steps will be needed to rearrange this?
1) 1 2) 2 3) 3 4) 4 5) 5

**Directions (Q. 317-321): An arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:**

**Input:** The lose as supply right will man
**Step I :** As the lose supply right will man
**Step II:** As man the lose supply right will
**Step III:** As man the lose will supply right
**Step IV :** As man the lose will right supply

Study the logic followed and answer the questions that follow.

317. **Input:** With his government facing a crisis.
What will be the 3rd step for this input?
1) A crisis facing with his government
2) A his with facing government crisis
3) With his government facing a crisis
4) A his with crisis government facing
5) None of these

318. In how many steps can the following input be rearranged?
**Input:** On coming to power early last year
1) 1 2) 2 3) 3 4) 4 5) 5

319. What will be the 2nd step of the following input?
**Input:** Bankers expectations were running high today.
1) Bankers expectations high were running today
2) High were bankers expectations running today
3) High bankers expectations were running today
4) Bankers expectations high running were today
5) None of these

320. Which of the following inputs will take the maximum number of steps for rearranging?
1) Key policy statements next week will contain
2) Measures to speed the flow of credit
3) The country's ailing infrastructure sector
4) Bottlenecks caused by power shortages transport
5) One of the main reasons for growth

321. "Are into banks mainly capital working financing" is the 3rd step for which of the following inputs?
1) Mainly banks are into working capital financing
2) Banks are mainly into working capital financing
3) Mainly banks are working financing into capital
4) Into banks are mainly capital working financing
5) None of these

**Directions (Q. 322-326): An arrangement machine when given an input line of numbers, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement.**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 8 | 17 | 10 | 69 | 5 | 125 | 79 |
| **Step I:** | 125 | 17 | 10 | 69 | 5 | 8 | 79 |
| **Step II:** | 125 | 79 | 10 | 69 | 5 | 8 | 17 |
| **Step III:** | 125 | 79 | 69 | 10 | 5 | 8 | 17 |
| **Step IV:** | 125 | 79 | 69 | 17 | 5 | 8 | 10 |
| **Step V:** | 125 | 79 | 69 | 17 | 10 | 8 | 5 |

Since the numbers are already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the numbers get fully arranged. Study the logic and answer the questions that follow:

322. **Input:** 17, 29, 39, 6, 28, 55, 2
What will be the 3rd step?
1) 55, 29, 39, 6, 28, 17, 2 2) 55, 39, 29, 28, 6, 17, 2
3) 55, 39, 29, 6, 28, 17, 2 4) 55, 39, 29, 28, 17, 6, 2
5) None of these

323. **Input:** 29, 17, 55, 6, 109, 48, 97
What will be the last step?
1) 109, 29, 55, 17, 6, 48, 97 2) 109, 97, 55, 48, 17, 29, 6
3) 6, 17, 29, 48, 55, 97, 109 4) 109, 97, 55, 48, 29, 17, 6
5) None of these

324. **Input:** 7, 21, 28, 35, 42, 63, 70
In how many steps will this series be rearranged?
1) Three 2) Four 3) Five 4) Six 5) Seven

325. Which of the following inputs will take the maximum number of steps for being rearranged?
1) 17, 71, 27, 91, 53, 44, 35 2) 92, 72, 28, 18, 54, 45, 34

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3) 93, 73, 55, 19, 29, 46, 37 4) 88, 67, 46, 27, 18, 34, 6
5) 20, 30, 94, 56, 47, 38, 74

326. **Input:** 35, 91, 56, 69, 67, 39, 26
What will be the 2nd step?
1) 91, 35, 56, 69, 67, 39, 26 2) 91, 69, 67, 35, 56, 39, 26
3) 91, 69, 67, 56, 35, 39, 26 4) 91, 69, 67, 56, 39, 35, 26
5) None of these

**Directions (Q. 327-331): Read the following information carefully and answer the questions given below.**

A meeting is to be held from 1 pm to 6 pm in five shifts each of one hour's duration. The delegates have been allotted different shifts with a code to attend the meeting. Code for shift 1 pm to 2 pm is 'Chang Bone Exi Dug Gai Fack'. For 2 pm to 3 pm it is 'Bone Dug Fack Chang Exi Gai'. For 3 pm to 4 pm it is 'Dug Chang Gai Bone Fack Exi.' For 4 pm to 5 pm it is 'Fack Gai Dug Exi Bone Chang'. And for the last shift, i.e. 5 pm to 6 pm, it is 'Gai Exi Chang Fack Dug Bone'.

327. If the meeting is to be held from 6 pm to 7 pm, what will be the code? (Assume the same logic to continue)
1) Exi Fack Bone Gai Chang Dug
2) Fack Exi Gai Bone Chang Dug
3) Exi Bone Chang Fack Gai Dug
4) Fack Gai Dug Exi Bone Chang
5) None of these

328. If the code from 1 pm to 2 pm is 'Yi Zen Bec Chi Kai Hoi' then what would be the code from 5 pm to 6 pm?
1) Zen Chi Hoi Kai Yi Bec 2) Chi Hoi Yi Kai Bec Zen
3) Kai Bec Yi Hoi Chi Zen 4) Bec Hoi Zen Kai Yi Chi
5) None of these

329. If the code remains the same as above, what would be the code for the shift 3 pm to 4 pm?
1) Chi Hoi Yi Kai Bee Zen 2) Bec Hoi Zen Yi Kai Chi
3) Zen Chi Kai Hoi Yi Bec 4) Bec Zen Yi Kai Hoi Chi
5) None of these

330. If the code of 3 pm to 4 pm is 'min epi qui shi bic hoi' then what will be the code from 1 pm to 2 pm?
1) bic hoi shi epi qui min 2) shi min qui epi bic hoi
3) epi shi hoi min qui bic 4) min qui shi hoi bic epi
5) None of these

331. If the code remains the same as above then what will be code from 5 pm to 6 pm?
1) shi min qui epi bic hoi 2) qui hoi epi bic min shi
3) min qui hoi bic shi epi 4) bic shi epi hoi min qui
5) None of these

**Directions (Q. 332-336): Study the following information carefully and answer the questions given below.**

XYZ Limited Company organised an exhibition of machine tools. The exhibition was open on all the week days for public. Certain passcodes were issued to the visitors as entry card. The passcode of entry card was changed every hour according to a certain rule as shown below. The entry time of the first batch of the visitors was 9 AM and that for the last batch was 7 PM. Each batch was allowed only one hour. The lunch time was from 1 PM to 2 PM.

**Batch I** (9 AM to 10 AM)
**Passcode:** she when out and but while of

**Batch II:** (10 AM to 11 AM)
**Passcode:** when but she and of out while

**Batch III:** (11 AM to 12 Noon)
**Passcode:** but of when and while she out
and so on.

332. If the passcode for the batch entering at 12 noon is "oh you are wrong do it again",
then what will be the passcode for the batch entering at 3 PM?
1) are oh it wrong you again do
2) again it do wrong are you oh
3) you do oh wrong again are it
4) do again you wrong it oh are 5) None of these

333. Ravi and Priti visited the exhibition with the same passcode but not in the same batch. If Priti visited the exhibition with Sneha in second batch then in which batch Ravi visited the exhibition?
1) III 2) IV 3) VI 4) VII 5) None of these

334. If the passcode for batch V is
"one done task all why he is",
then what will be the passcode for the seventh batch?
1) is why done all he one task
2) done why one all is task he
3) why is done all he one task
4) done is why all he one task
5) None of these

335. If the code for the second batch is "door to window above wall of home", then which batch has the code "wall home to above of door window"?
1) VIII 2) X 3) IX 4) VII 5) VI

336. If the passcode for batch VII is
"go home meet your parents at once"
then what will be the passcode for the batch whose entry time is 11 AM?
1) parents once home your at go meet
2) once at parents your meet home go
3) once parents home your at go meet
4) Can't say 5) None of these

**Directions (Q. 337-343): Study the following information carefully and answer the questions given below:**

A Classroom Coaching 'X' has four batches for PO aspirants. Each student is given an entry code. The entry code of each of the students of a particular batch is the same on a particular day. Name of the batches are A, B, C and D. Classes are held from Monday to Saturday. Codes for the students of D batch on a particular day becomes code for batch A on succeeding day. Here are the codes of each batch on Monday (1 Jan, 2001)

**Day's Pass code (Entry code)**
**Batch A:** melt his heart with the warmth of your smile
**Batch B:** with heart his melt the smile your of warmth
**Batch C:** warmth of your smile the melt his heart with
**Batch D:** smile your of warmth the with heart his melt
The codes for each day change as per the same rule.

337. If entry code for the **batch A** on Monday (1st Jan 2001)

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was "I became the first victim of current new policies" then what was the entry code for the **batch B** on 6th January 2001?
1) first the became I victim of current new policies
2) of current new policies victim I became the first
3) of current new policies victim first the became I
4) policies new current of victim first the became I
5) None of these

338. If entry code for **batch D** on Wednesday (3rd Jan 2001) was "despite these grim statistics much has already been achieved", then which of the following batches does **not** have the following entry code:
**Entry code:** achieved been already has much statistics grim these despite
1) Batch A on 3rd Jan 2001 2) Batch D on 2nd Jan, 2001
3) Batch A on 1st Jan, 2001 4) Batch A on 4th Jan, 2001
5) None of these

339. If the entry code for **batch C** on 5th Jan 2001 was "Of child death rates reduction there has been steady" then what was the entry code for **batch B** on 6th Jan 2001?
1) rates death child of reduction there has been steady
2) rates death child of reduction steady been has there
3) steady been has there reduction of child death rates
4) there has been steady reduction of child death rates
5) None of these

340. If the entry code for **batch D** on 6th Jan 2001 was "a closer look at the statistics will quantify claims", what was the entry code for **batch D** on 1st Jan 2001?
1) a closer look at the claims quantify will statistics
2) at look closer a the claims quantify will statistics
3) claims quantify will statistics the at look closer a
4) statistics will quantify claims the a closer look at
5) None of these

341. Entry code for batch C on 1st Jan 2001 **does not** match with entry code of batch C of which of the following dates?
I. 3rd Jan 2001 II. 4th Jan 2001 III. 5th Jan 2001
1) Only II 2) Only III 3) Only I
4) Only I and II 5) None of these

342. The entry codes of which of the following batches of 1st Jan 2001 was used maximum number of times during 1st Jan to 6th Jan in the year 2001?
1) Batch A 2) Batch B
3) Batch C 4) Batch D
5) Entry codes of all theses batches were used equal number of times during the given period

343. Entry codes of which of the following batches of Tuesday will not change on Thursday?
1) Batch A 2) Batch B 3) Batch C
4) Batch D 5) All of the above

**Directions (Q. 344-349): Read the following information carefully and answer the questions given below:**

A famous temple issues entry passes to all its devotees owing to the endangering of security by militant attacks on famous temples. Devotees are allowed in batches after every 30 minutes. In a day there are 24 batches. A code is printed on the entry pass and it keeps on changing for every batch. Following in an illustration of passcodes issued for each batch.

**Batch I:** look under your seat there may be a bomb
**Batch II:** bomb a look under seat be may there your
**Batch III:** look be under bomb your there a may seat
**Batch IV:** seat may look be bomb a there your under
and so on ....

344. If the passcode for the third batch is "touch any do not objects which looks suspicious you", what will be the passcode for the sixth batch?
1) not which touch looks you suspicious objects do any
2) any which touch looks you suspicious objects do not
3) you suspicious touch any not looks which objects do
4) touch suspicious looks not any do which objects you
5) None of these

345. If "peace mental can obtained only when you believe god" is the passcode for the fifth batch, "peace you mental god can only believe when obtained" will be the passcode for which of the following batches?
1) IV 2) VII 3) VIII 4) X 5) XII

346. A devotee performed *pooja* in the second batch and was issued a passcode "solve murder on train as four fellow passengers statements". What would have been the passcode for him had he performed *pooja* in the eighth batch on the same day?
1) solve train on passengers as statements four murder fellow
2) on passengers fellow as murder four statements train solve
3) on fellow murder solve four train passengers statements as
4) as statements on fellow solve passengers train four murder
5) None of these

347. Krishna went to perform *pooja* in the third batch. He was issued a passcode "take on the fiendishly frustrating hidden words secret numbers". However, he could not perform *pooja* in that particular batch as he was late. He then preferred to perform *pooja* in the batch which had been issued a passcode the same as the first batch. In which batch did he perform pooja?
1) XIV 2) VIII 3) X 4) XII 5) XIII

348. If the passcode for the thirteenth batch is "to win bets by from one with the moves" what will be the passcode for the sixteenth batch?
1) to by one with moves the from bets win
2) by to one with moves the from bets win
3) by one to with moves the from bets win
4) to one by with moves the from bets win
5) None of these

349. If the first batch code for a day is "hints and clues are along the way so try" which of the following will be the code for the second batch?
1) try so hints and are way the along clues
2) clues along the way are and hints so try
3) hints so try and are way the along clues
4) hints so try are and way the along clues
5) None of these

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# Answers and Explanations

**(1-5):** Here the rule followed is the numbers are getting arranged in descending order.

**Step I:** The largest of the given numbers interchanges its place with the first number. [In case the largest number is already arranged, the second largest is interchanged with the number next to the largest and so on.]

**Step II:** The same process as that of step I will happen here but in this step, nos. will be shifted rightwards instead of interchange.

1. 4; **Input:** 320, 211, 59, 68, 119, 158, 63
**Step I:** 320, 211, 158, 68, 119, 59, 63
**Step II:** 320, 211, 158, 119, 68, 59, 63
**Step III:** 320, 211, 158, 119, 68, 63, 59
Since all the nos. are fully arranged in descending order only in three steps hence the machine will not operate on these numbers.

2. 4; In such types the steps prior to the given step cannot be determined.

3. 3; **Step III:** 574, 479, 153, 79, 354, 432, 106, 84 (Given)
**Step IV:** 574, 479, 432, 153, 79, 354, 106, 84 (The rest shifted)
**Step V:** 574, 479, 432, 354, 79, 153, 106, 84 (interchanged)
**Step VI:** 574, 479, 432, 354, 153, 79, 106, 84 (Shifted)
**Step VII:** 574, 479, 432, 354, 153, 106, 79, 84

4. 2 5. 1

**(6-12):** Here the rule followed is: The numbers are getting arranged in alternate series; one in descending order and the other in ascending order.
**Step I:** The largest of the given numbers comes to the place of first number and the rest shift rightward.
**Step II:** The smallest of the given numbers comes to the place of second number and the rest shift rightward.
**Step III:** The second largest of the given numbers comes to the place of third number and the rest shift rightward.
**Step IV:** The second smallest of the given numbers comes to the place of fourth number and the rest shift rightward and so on until the alternate series is formed.

6. 1; **Step III:** 631, 29, 520, 474, 48, 312, 502, 36, 68
**Step IV:** 631, 29, 520, 36, 474, 48, 312, 502, 68
**Step V:** 631, 29, 520, 36, 502, 474, 48, 312, 68
**Step VI:** 631, 29, 520, 36, 502, 48, 474, 312, 68

7. 3; **Input:** 47, 432, 127, 52, 309, 87, 28, 116
In such case the final step can be written directly.
432, 28, 309, 47, 127, 52, 116, 87

8. 4; Previous step can't be determined.

9. 5; **Input:** 20, 105, 17, 37, 76, 121, 123, 41
**Step I:** 123, 20, 105, 17, 37, 76, 121, 41
**Step II:** 123, 17, 20, 105, 37, 76, 121, 41
**Step III:** 123, 17, 121, 20, 105, 37, 76, 41

10. 2 11. 1

12. 4; Since the input is finally set, hence further step can't be determined.

**(13-17):** Here the rule followed is the numbers are getting arranged in ascending order.
**Step I:** The largest of the given numbers goes at the end and the remaining numbers shift leftward.
**Step II:** The smallest of the given numbers goes at the beginning and the rest shift rightward.
**Step III:** The second largest of the given numbers goes one place before the last (or second place from the right and) and the remaining shift leftward.
**Step IV:** The second smallest of given numbers goes second place from the left end and the remaining numbers shift rightward.
And so on until the numbers arranged in ascending order.

13. 1; **Input:** 27, 112, 33, 105, 98, 12, 85
**Step I:** 27, 33, 105, 98, 12, 85, 112
**Step II:** 12, 27, 33, 105, 98, 85, 112
**Step III:** 12, 27, 33, 98, 85, 105, 112
**Step IV:** 12, 27, 33, 85, 98, 105, 112

14. 5; In these types previous steps can't be determined.

15. 4 16. 1

17. 5; In these cases the series of ascending order will be the answer.

**(18-23):** Here the rule followed is:
Bearing in mind the ascending order, the middle no. occupies the middle position and the rest get arranged in the same order as earlier on the vacant positions.
Next, the no. just before the middle one in ascending order occupies the position just before the middle.
Then, the no. just after the middle one in ascending order occupies the position just after the middle.
And so on until the numbers get fully arranged in ascending order.

18. 1; **Input:** 39 149 407 79 315 217 195
**Step I:** 39 149 407 195 79 315 217
**Step II:** 39 407 149 195 79 315 217
**Step III:** 39 407 149 195 217 79 315
**Step IV:** 39 79 149 195 217 407 315
**Step V:** 39 79 149 195 217 315 407

19. 2; **Input:** 312 49 215 413 187 297 132
**Step I:** 312 49 413 215 187 297 132
**Step II:** 312 49 187 215 413 297 132
**Step III:** 312 49 187 215 297 413 132
**Step IV:** 312 132 187 215 297 49 413

20. 3; **Step II:** 439 167 297 317 517 487 132
**Step III:** 167 517 297 317 439 487 132
**Step IV:** 517 167 297 317 439 487 132
**Step V:** 132 167 297 317 439 487 517

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21. 2; **Step III:** 119 39 68 87 93 116 41
**Step IV:** 119 41 68 87 93 39 116
**Step V:** 119 41 68 87 93 116 39

22. 1; The step which will be in strictly ascending order, will be the answer.

23. 4; Previous steps can't be determined.

**(24-29):** Here the rule followed is: numbers are getting arranged in ascending order. The smallest no. interchanges with the first position. Then the largest no. interchanges with the last position. Next, the second smallest no. interchanges with the second position. And so on.

24. 1; **Input:** 182 317 67 249 417 91 293
**Step I:** 67 317 182 249 417 91 293
**Step II:** 67 317 182 249 293 91 417
**Step III:** 67 91 182 249 293 317 417

25. 4; **Input:** 76 172 372 43 243 361 165
**Step I:** 43 172 372 76 243 361 165
**Step II:** 43 172 165 76 243 361 372
**Step III:** 43 76 165 172 243 361 372
[Machine will stop after step III.]

26. 2; **Step II:** 46 122 343 48 56 212 415
**Step III:** 46 48 343 122 56 212 415
**Step IV:** 46 48 212 122 56 343 415

27. 3; In such types of questions we do not require to go in detail considering all steps. The last step will be definitely in strictly ascending order.

28. 4; In such type of settings previous step can't be determined.

29. 3; **Step II:** 23 142 348 96 400 200 410
**Step III:** 23 96 348 142 400 200 410
**Step IV:** 23 96 348 142 200 400 410
**Step V:** 23 96 142 348 200 400 410

**(30-34):**
**Step I:** is the digit-sum of the numbers in the input.
**Step II:** is obtained by squaring the numbers in step 1 and than subtracting '4' (some numbers could be negative.)
**Step III:** is the digit-sum of the numbers in step 2.
**Step IV:** the squares of natural nos. is added to the nos. in step 3. [ie $+1^2$, $+2^2$, $+3^2$...]
**Step V:** We add 8 to the nos. in step 4.
**Step VI:** is the digit sum of numbers in step 5.

30. 1; **Input:** 23 61 15 35 54 75 85
**Step I:** 5 7 6 8 9 3 4
**Step II:** 21 45 32 60 77 5 12
**Step III:** 3 9 5 6 5 5 3
**Step IV:** 4 13 14 22 30 41 52

31. 3 32. 1

33. 2; **Input:** 35 56 33 46 16 32 94
**Step I:** 8 2 6 1 7 5 4
As step I is same as given in example. Hence step V will be same.

34. 4; As step I and III are determined by digit-sum, previous step can't be determined.

**(35-39):** Here the rule followed is:
**Input to step I:** The third and fifth words get interchanged among themselves.
**Step I to Step II:** The group of first three words gets reversed and so does the group of last four.
**Step II to Step III:** The group of first four words gets reversed and so does the group of last three.
**Step III to Step IV:** Same as input to step I.
For convenience, if we assign nos. to each word of the input as pull-1, the-2, cover-3, and-4, then-5, push-6 and into-7, then we get,

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Step I:** | 1 | 2 | 5 | 4 | 3 | 6 | 7 |
| **Step II:** | 5 | 2 | 1 | 7 | 6 | 3 | 4 |
| **Step III:** | 7 | 1 | 2 | 5 | 4 | 3 | 6 |
| **Step IV:** | 7 | 1 | 4 | 5 | 2 | 3 | 6 |
| **Step V:** | 4 | 1 | 7 | 6 | 3 | 2 | 5 |
| **Step VI:** | 6 | 7 | 1 | 4 | 5 | 2 | 3 |
| **Step VII:** | 6 | 7 | 5 | 4 | 1 | 2 | 3 |
| **Step VIII:** | 5 | 7 | 6 | 3 | 2 | 1 | 4 |

35. 5; **Input:** Try your best until you get goal
1 2 3 4 5 6 7
**Arrangement:** get goal try until you your best
**Step VI:** 6 7 1 4 5 2 3

36. 2; **Step VI:** 6 7 1 4 5 2 3
deep gutter ball into the has fallen
**Input:** Ball has fallen into the deep gutter
1 2 3 4 5 6 7

37. 1 38. 4 39. 3

**(40-44):** The words get arranged one by one on the basis of the no. of letters, the largest word getting arranged first. If the no. of letters is the same, the word that comes later in the dictionary gets arranged first. While one word gets arranged, the others shift rightwards.

40. 3; The last step is the arrangement finally desired.

41. 2; **Input:** the of president new Indonesia is Waheed
**Step I:** president the of new Indonesia is Waheed
**Step II:** president Indonesia the of new is Waheed
**Step III:** president Indonesia Waheed the of new is
**Step IV:** president Indonesia Waheed the new of is
Thus, Step III.

42. 4 43. 5 44. 1

**(45-49) : Here the rule followed is:**
**In Step I:** The digits of every number have been added multiplied by 2.
**In Step II:** The digits of every number of the input have been added and then the result has been squared.
**In Step III:** All numbers of the input are added with 3.
**In Step IV:** Each number of the input is multiplied by 2 and then 5 is subtracted from the product.
**In Step V:** The digits of every number of the input are

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summed up.
**In Step VI:** If we consider the input as four pairs of numbers, the 3rd pair is written first, then the first pair, again the fourth, and at last the second pair.

45. 2; The whole input is divided into 4 groups like (52, 78), (43, 39), (47, 36), (57, 19). Now 3rd, 1st, 4th and 2nd groups are written.
46. 4; Every output will be added to 5 and then divided by 2. The input will come out.
47. 5; The nos. are divided by 2.
48. 2; Every no. is added with 3.
49. 4

**(50-55):** Here the rule followed is:
**Input to Step I:** The first and fourth words/numbers get interchanged among themselves.
**Step I to Step II:** The group of first four words/numbers gets reversed and so does the group of last three.
**Step II to Step III:** The group of first three words gets reversed and so does the group of last four.
**Step III to Step IV:** The second and fifth words/numbers get interchanged among themselves.
**Step IV to Step V:** Same as input to step I.
For convenience, if we assign nos. to each word/number of the input as bui-1, hi-2, 283-3, fa-4, 312-5, ja-6, and 17-7, then we get
**Input:** 1 2 3 4 5 6 7
**Step I:** 4 2 3 1 5 6 7
**Step II:** 1 3 2 4 7 6 5
**Step III:** 2 3 1 5 6 7 4
**Step IV:** 2 6 1 5 3 7 4
**Step V:** 5 6 1 2 3 7 4
**Step VI:** 2 1 6 5 4 7 3
**Step VII:** 6 1 2 3 7 4 5
**Step VIII:** 6 7 2 3 1 4 5

50. 5; **Input:** ht 6 feet waist 28 inch wow
1 2 3 4 5 6 7
**Arrangement:** 6 ht inch 28 waist wow feet
**Step VI:** 2 1 6 5 4 7 3
51. 1; **Step IV:** 120 miles Ran 80 km far Jam
2 6 1 5 3 7 4
**Input:** 1 2 3 4 5 6 7
Ran 120 km Jam 80 miles far
52. 3; **Step III:** BSC has changed its old office yesterday
2 3 1 5 6 7 4
**Step VII:** 6 1 2 3 7 4 5
old changed BSC has office yesterday its
53. 2; **Input:** Kapil the most patriotic man of country
1 2 3 4 5 6 7
**Step VIII:** 6 7 2 3 1 4 5
of country the most Kapil patriotic man
54. 2; **Step V:** do not watch cricket until they accept
5 6 1 2 3 7 4
**Step VII:** 6 1 2 3 7 4 5
not watch cricket until they accept do
55. 1; **Step I:** 9 2 11 chal foot le Veeru
4 2 3 1 5 6 7
**Step VI:** 2 1 6 5 4 7 3
2 chal le foot 9 Veeru 11

**(56-61):** The arrangement is simple: all you have to do is to follow the reverse alphabetical order.

56. 5; **Input:** In the bag five packets were kept.
**Step I:** Were in the bag five packets kept.
**Step II:** Were the in bag five packets kept.
57. 1; As there are three words before *it* (the 1st word of input), the step can be counted directly.
58. 3; **Step II:** Zoo Yalk I have never seen till date.
**Step III:** Zoo Yalk till I have never seen date.
**Step IV:** Zoo Yalk till seen I have never date.
**Step V:** Zoo Yalk till seen never I have date.
59. 1; **Input:** Life has become bore without you true
**Last step:** You without true life has bore become.
**Note:** Last step can be written directly.
60. 4; Previous steps can't be determined in these types.
61. 3; **Input:** he is bathing in shower with dove soap.
**Step I:** with he is bathing in shower dove soap.
**Step II:** with soap he is bathing in shower dove.
**Step III:** with soap shower he is bathing in dove.
**Step IV:** with soap shower is he bathing in dove.
**Step V:** with soap shower is in he bathing dove.
**Step VI:** with soap shower is in he dove bathing.

**(62-67):** Here the rule followed is:
A keen watch of last step will help in determining the logic. Numbers and words get arranged alternately. Numbers are getting arranged in descending order. Words with more no. of letters precede words with less letters and in case of words with equal no. of letters, arrangement occurs according to reverse alphabetical order. When a number/word gets arranged others shift rightwards.

62. 4; **Input:** 3 boys 9 girls 4 days 2 works
**Step I:** 9 3 boys girls 4 days 2 works
**Step II:** 9 works 3 boys girls 4 days 2
**Step III:** 9 works 4 3 boys girls days 2
**Step IV:** 9 works 4 girls 3 boys days 2
63. 4; Previous steps can't be determined
64. 2; **Input:** 16 hrs concentration 12 jobs 18 proposals
**Step I:** 18 16 hrs concentration 12 jobs proposals (3)
**Step II:** 18 concentration 16 hrs 12 jobs proposals (5)
**Step III:** 18 concentration 16 proposals hrs 12 jobs (1)
**Step IV:** 18 concentration 16 proposals 12 hrs jobs
**Step V:** 18 concentration 16 proposals 12 jobs hrs (4)
**Note:** Digits in brackets denote the option nos.
65. 3 66. 5 67. 1

**(68-72):** Here the rule followed is:
**Input to Step I:** The second and fifth words get inter-

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changed among themselves.
**Step I to Step II:** The group of first three words get reversed and so does the group of last four.
**Step II to Step III:** The group of the first four words gets reversed and so does the group of last three.
**Step III to Step IV:** Same as input to step I.
For convenience, if we assign nos. to each word of the input as hurrey -1, we -2, get - 3, the - 4, add - 5, very - 6, and soon - 7, then we get

**Input:** 1 2 3 4 5 6 7
**Step I:** 1 5 3 4 2 6 7
**Step II:** 3 5 1 7 6 2 4
**Step III:** 7 1 5 3 4 2 6
**Step IV:** 7 4 5 3 1 2 6
**Step V:** 5 4 7 6 2 1 3
**Step VI:** 6 7 4 5 3 1 2
**Step VII:** 6 3 4 5 7 1 2
**Step VIII:** 4 3 6 2 1 7 5

68. 4; **Input:** We both were going alone in car
1 2 3 4 5 6 7
**Arrangement:** alone going car in both we were
**Step V:** 5 4 7 6 2 1 3

69. 3; **Step V:** front in me of was it blank
5 4 7 6 2 1 3
**Input:** 1 2 3 4 5 6 7
It was blank in front of me

70. 2 71. 5 72. 1

**(73-79):** Here the rule followed is:
A keen watch of last step will help in determining the logic. Words and numbers get arranged alternately. Word with less no. of letters precedes words with more letters and in case of words with equal no. of letters, arrangement occurs according to that in dictionary. Numbers are getting arranged in ascending order. The arrangement takes place in each step by interchanging.

73. 4; **Input:** 17 minus 8 is not always 9.
The last step can be directly determined, using the above mentioned logic.
Hence **Last step:** is 8 not 9 minus 17 always.

74. 4; **Input:** Salgaonkar defeats Mohun 3 by 8 in 10.
**Step I:** by defeats Mohun 3 Salgaonkar 8 in 10.
**Step II:** by 3 Mohun defeats Salgaonkar 8 in 10.
**Step III:** by 3 in defeats Salgaonkar 8 Mohun 10.
**Step IV:** by 3 in 8 Salgaonkar defeats Mohun 10.
**Step V:** by 3 in 8 Mohun defeats Salgaonkar 10.
**Step VI:** by 3 in 8 Mohun 10 Salgaonkar defeats.
**Step VII:** by 3 in 8 Mohun 10 defeats Salgaonkar.

75. 2; **Input:** 3 kilo of each means 1.4 and 1.6
**Step I:** of kilo 3 each means 1.4 and 1.6
**Step II:** of 1.4 3 each means kilo and 1.6
**Step III:** of 1.4 and each means kilo 3 1.6
**Step IV:** of 1.4 and 1.6 means kilo 3 each

76. 1; **Input:** 3 hat tricks 140 wicket 1223 run
**Step I:** hat 3 tricks 140 wicket 1223 run
**Step II:** hat 3 run 140 wicket 1223 tricks

77. 4; It is not possible to determine previous steps.

78. 4; **Step II:** Ash 94 Dia 97 99 Yukta miss world
**Step III:** Ash 94 Dia 97 miss Yukta 99 world
**Step IV:** Ash 94 Dia 97 miss 99 Yukta world
**Step V:** Ash 94 Dia 97 miss 99 world Yukta

79. 4; **Input:** Dial 24 10 57 4 to contact us.
**Step I:** to 24 10 57 4 Dial contact us. [Option 3]
**Step II:** to 4 10 57 24 Dial contact us. [Option 1]
**Step III:** to 4 us 57 24 Dial contact 10. [Option 2]
**Step IV:** to 4 us 10 24 Dial contact 57. [Option 5]
**Step V:** to 4 us 10 Dial 24 contact 57.
Which is the last step.

**(80-84):** For the sake of convenience, assign numbers to each word of the input.
**Input:** Ja Ma Da Ch Ha Bo Ka
1 2 3 4 5 6 7
Now, in **Step I**, the third word comes at the beginning and the first and second words are pushed rightwards. Also, the fourth word goes at the end and the remaining words are pushed leftwards.
In **Step II**, the fourth word from the previous step comes at the beginning while the first three words are pushed rightwards. Also, the fifth word of Step I goes at the end and the remaining words are pushed leftwards.
These steps are repeated thereafter
For convenience, we plot the movement of each word in each step by the numbers assigned to them in the input.

**Input:** 1 2 3 4 5 6 7
**Step I:** 3 1 2 5 6 7 4
**Step II:** 5 3 1 2 7 4 6
**Step III:** 1 5 3 7 4 6 2
**Step IV:** 7 1 5 3 6 2 4
**Step V:** 5 7 1 6 2 4 3
**Step VI:** 6 5 7 1 4 3 2
**Step VII:** 7 6 5 4 3 2 1
**Step VIII:** 4 7 6 5 2 1 3

80. 4; From the table the numbers in step II are
5 3 1 2 7 4 6
ga re bu la ra hi hai
In Step VII, we have the numbers arranged as
7 6 5 4 3 2 1
ra hai ga hi re la bu

81. 2; **Input:** hai da di Mo su ka au
1 2 3 4 5 6 7
**Step IV:** 7 1 5 3 6 2 4
au hai su di ka da Mo

82. 3; **Step IV:** Na Che Ne aye angan to rha
7 1 5 3 6 2 4

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**Step VIII:** 4 7 6 5 2 1 3
rha Na angan Ne to Che aye

83. 2 84. 4

**(85-89):** Let us find out the logic: In Step I, the last three words get reversed while the first and third, and second and fourth interchange their positions. In Step II, the middle three words get reversed and the alternate words interchange among themselves in the remaining four. In Step III, the three-word group is at the beginning and changes take place accordingly.
From Step III to Step IV, changes are similar to those from Input to Step I. And so on.
Now, if we mark the words in the input by digits 1 to 7 respectively the digital arrangement will be:

**Input:** 1 2 3 4 5 6 7
**Step I:** 3 4 1 2 7 6 5
**Step II:** 6 5 7 2 1 3 4
**Step III:** 7 5 6 3 4 2 1
**Step IV:** 6 3 7 5 1 2 4
**Step V:** 2 4 1 5 7 6 3
**Step VI:** 1 4 2 6 3 5 7
**Step VII:** 2 6 1 4 7 5 3

85. 4; Let us write down the words given in step V along with its code from the above table.
**Step V:** bees are sucking juice from colourful flowers
**Code:** 2 4 1 5 7 6 3
Thus we have each word being assigned a digit. Now, what would step III be? The table says: 7563421. We know that 7 stands for *from*, 5 stands for *juice*, and so on.

86. 5; **Step III:** old streets of Calcutta attract me lots
**Code:** 7 5 6 3 4 2 1
**Step VII:** 2 6 1 4 7 5 3
me of lots attract old streets Calcutta

87. 2 88. 1 89. 2

**(90-96):** Here the rule followed is: The sum of the digits is calculated. Then in step I, the number with lowest sum of its digits interchanges with the first number. [If the first number has already the lowest sum of its digits then the number with second lowest sum of its digits interchanges with the second number.] The process continues until the numbers get arranged in ascending order on the basis of their sum of digits.

90. 2

91. 1; **Input:** 544, 653, 325, 688, 461, 231, 857
(13) (14) (10) (22) (11) (6) (20)
**Step I:** 6 14 10 22 11 13 20
**Step II:** 6 10 14 22 11 13 20
**Step III:** 6 10 11 22 14 13 20
**Step IV:** 6 10 11 13 14 22 20
**Step V:** 6 10 11 13 14 20 22
Hence, (231, 325, 461, 544, 653, 857, 688

[**Note:** It is easy to proceed with the help of sum of their digits and substitute when required.]

92. 3 93. 2

94. 4; In these types previous steps can't be determined.

95. 1 96. 3

**(97-103):** After a keen watch we see that the last step consists of two alternating series: One in ascending order and the other in descending order.
When we go through step by step, we find that first the smallest no., then the largest no., again the second smallest no., then the second largest no. bcomes the first, second, third and fourth respectively. The process continues untill the two alternate series are formed.

97. 3 98. 1 99. 2 100. 5 101. 1 102. 4 103. 4

**(104-110):** It is clear that machine is arranging the words of the input neither on the basis of no. of letters in each word nor alphabetical nor change in position in a fixed pattern. But after a keen watch on the last step we find that the last letter of each word is in alphabetical order.
Now, it can be found that the word whose last letter comes first in English alphabet becomes first and the rest shift one position rightward. Now the word with last letter just after the last letter of the arranged word as in English alphabet becomes second and the rest shift one position rightward and so on.

104. 2; **Input:** Kaho Naa Pyaar Hai is slowly fading.
**Step I:** Naa Kaho Pyaar Hai is slowly fading.
**Step II:** Naa fading Kaho Pyaar Hai is slowly
**Step III:** Naa fading Hai Kaho Pyaar is slowly.
Hence, step II is the penultimate step.

105. 4 106. 4 107. 3 108. 1 109. 5 110. 4

**(111-117):** It is clear that machine is arranging the words of the input neither on the basis of no. of letters in each word nor alphabetical nor change in position in a fixed way. But after a keen watch on the last step we find that the last letter of each word is in reverse alphabetical order.
Now, it can be found that the word whose last letter comes later in English alphabet becomes first and the rest shift one position rightward. Now the word with last letter just before the last letter of the arranged word as in English alphabet becomes second and the rest shift one position rightward and so on.

111. 2; The last step can be written directly following the rule.

112. 3; **Step II:** not is the casino considering legal action
**Step III:** not is casino the considering legal action
**Step IV:** not is casino action the considering legal
**Step V:** not is casino action legal the considering

113. 1; **Input:** Life is all about affair and gossip
**Step I:** about life is all affair and gossip
**Step II:** about is life all affair and gossip
**Step III:** about is affair life all and gossip
**Step IV:** about is affair gossip life all and

114. 4; Previous step can't be determined.

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115. 5; Previont step can't be determined.
116. 5; **Input:** Father needs to check on the boy
**Step I:** boy father needs to check on the
**Step II:** boy needs father to check on the
**Step III:** boy needs father to on check the
117. 5; **Input:** Private detectives run over official machinery
**Step I:** machinery private detectives run over official
**Step II:** machinery detectives private run over official
**Step III:** machinery detectives over private run official
**Step IV:** machinery detectives over run private official
**Step V:** machinery detectives over run official private
Step V is the last step for this input. Hence step IV is the penultimate step.

**(118-122):** The words are arranged according to the number of letters they have, one at a time. The word with the maximum number of letters is put first. If two words have the same number of letters, we go for alphabetical arrangement.

118. 2; **Input:** threats gang careful answer agree classes more
**Step I:** careful threats gang answer agree classes more
**Step II:** careful classes threats gang answer agree more
**Step III:** careful classes threats answer gang agree more
119. 5; **Step II:** children teachers bunking school canteen movie freedom
**Step III:** children teachers bunking canteen school movie freedom
**Step IV:** children teachers bunking canteen freedom school movie
Now, step IV would be the last step.
120. 1; **Input:** pangs of worst and fears the neglect
**Step I:** neglect pangs of worst and fears the
**Step II:** neglect fears pangs of worst and the
**Step III:** neglect fears pangs worst of and the
**Step IV:** neglect fears pangs worst and of the
121. 4; **Input:** her famous away sibling thing usual stay
**Step I:** sibling her famous away thing usual stay
**Step II:** sibling famous her away thing usual stay
**Step III:** sibling famous thing her away usual stay
**Step IV:** sibling famous thing usual her away stay
**Step V:** sibling famous thing usual away her stay
**Step VI:** sibling famous thing usual away stay her
122. 5; We can't move backward.

**(123-128):** Here the rule followed is:
P. If **Input** is 1 2 3 4 5 6 7, then
**Step I** becomes 5 1 2 6 3 4 7.
Q. If **Step I** is 1 2 3 4 5 6 7, then
**Step II** becomes 1 3 5 7 2 4 6.
R. If **Step II** is 1 2 3 4 5 6 7, then
**Step III** becomes 1 5 6 2 7 3 4.
S. If **Step III** is 1 2 3 4 5 6 7, then
**Step IV** becomes 6 4 2 7 5 3 1.
Again, rules P, Q, R and S are used to get steps V, VI, VII and VIII respectively. The process continues for steps IX, X, ....
For convenience, we assign a letter for each word of the Input:
and A, band - B, land - C, hand - D, hind - E, lack - F, job - G

123. 4; **Input:** do we he is it at all
A B C D E F G
**Given step:** all we he is do at it
G B C D A F E
Now, see the chart. Letters assigned for step X match with the letters obtained for the given step.
124. 1; **Step IV:** he is to do what her observe
C B A G D F E
**Input:** A B C D E F G
to is he what observe her do
125. 2; **Step III:** when then men can how are you
E A F B D C G
**Step VII:** D C F B G A E
how are men can you then when
126. 3; **Input:** stejpan mesic is the president of croatia
A B C D E F G
**Step VIII:** A B C E G F D
Stejpan mesic is president croatia of the
127. 5; **Step V:** will you hit centuries three again at
D C B F A G E
**Step VII:** D C F B G A E
will you **centuries hit again** three at
128. 4; **Step II:** has started new BSC batches for PO
E B C G A F D
**Step VI:** D B A E C F G
PO started batches has new for BSC

**(129-133):** The logic of arrangement here is:
The word with the least number of letters (*is* has only two letters) gets arranged first. If the number of words with the same number of letters is more than one, alphabetical preference is given.

129. 3; **Step II:** go oh we all you went are have
**Step III:** go oh we all are you went have
**Step IV:** go oh we all are you have went
130. 4; Previous steps can't be determined.
131. 3; **Input:** date and month on year happy my dear
**Step I:** my date and month on year happy dear
**Step II:** my on date and month year happy dear
**Step III:** my on and date month year happy dear
132. 1; **Input:** did of do dog cat rat animals ago
**Step I:** do did of dog cat rat animals ago
**Step II:** do of did dog cat rat animals ago
**Step III:** do of ago did dog cat rat animals
**Step IV:** do of ago cat did dog rat animals
133. 1

**(134-138):**
For the sake of convenience, assign numbers to each word of the input:

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| Input | happy | new | year | to | all | our | readers |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Now, in **step I**, the third word comes at the beginning and the first and the second words are pushed rightwards. Also, the fourth word goes at the end and the remaining words are pushed leftwards.

In step II, the fourth word from the previous step comes at the beginning while the first three words are pushed rightwards. Also, the fifth word of step I goes at the end and the remaining words are pushed leftwards.

These steps are repeated thereafter. For the sake of convience, we plot the movement of each word in each step by the numbers assigned to them in the input.

**Chart - I**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Step I:** | 3 | 1 | 2 | 5 | 6 | 7 | 4 |
| **Step II:** | 5 | 3 | 1 | 2 | 7 | 4 | 6 |
| **Step III:** | 1 | 5 | 3 | 7 | 4 | 6 | 2 |
| **Step IV:** | 7 | 1 | 5 | 3 | 6 | 2 | 4 |
| **Step V:** | 5 | 7 | 1 | 6 | 2 | 4 | 3 |
| **Step VI:** | 6 | 5 | 7 | 1 | 4 | 3 | 2 |
| **Step VII:** | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Step VIII:** | 4 | 7 | 6 | 5 | 2 | 1 | 3 |

134. 5; It is obvious from the above chart that in the seventh step the order of the words of the given input reverses. Hence, again in the fourteenth step order of the words in the seventh step will reverse. Thus the fourteenth step will remain as the given input.

135. 3; **Input:** aspirations desired your fulfil will year new
1 2 3 4 5 6 7
**Step VII:** 7 6 5 4 3 2 1
new year will fulfil your desired aspirations

136. 4; **Input:** din bik maati ek ke jayega mol
1 2 3 4 5 6 7
**Given step:** ek mol jayega ke bik din maati
4 7 6 5 2 1 3
Now, see the above chart. In which step do you get the following order? 4 7 6 5 2 1 3
Obviously, it is step VIII.

137. 1; As we have studied, in the *Magical Book Series* on *Analytical Reasoning* written by *MK Pandey*, step X to step XIII can be reduced by **Golden Rule**. According to the rule step X to step XIII reduces to step 0 to step III because the given sample is a two-type case. Note that in two-type case changing input to step I does not match with changing from step I to step II but certainly matches with step II to step III.
Thus assume step X as step 0 (Input) and step XIII as step III.
Now,
**Input:** tittle hanky tattle panky hob nob mob
1 2 3 4 5 6 7
**Step III:** 1 5 3 7 4 6 2
tittle hob tattle mob panky nob hanky
Thus, **step XIII** will be
tittle hob tattle mob panky nob hanky

138. 2; **Step IV:** all done half right at none for
7 1 5 3 6 2 4
**Input:** 1 2 3 4 5 6 7
done none right for half at all

**(139-145):** Clearly, in the given arrangement numbers that are multiples of 3 are arranged first, in ascending order; followed by multiples of 7 in ascending order.

139. 3; **Step II:** 51 69 49 87 93 77 70 56
**Step III:** 51 69 87 49 93 77 70 56
**Step IV:** 51 69 87 93 49 77 70 56
**Step V:** 51 69 87 93 49 56 77 70

140. 4; Previous steps can't be determined in these types.

141. 1; **Input:** 91 273 35 249 553 511 201 183
**Step I:** 183 91 273 35 249 553 511 201
**Step II:** 183 201 91 273 35 249 553 511
**Step III:** 183 201 249 91 273 35 553 511

142. 2; **Input:** 183 35 553 201 273 249 511 91
**Step I:** 183 201 35 553 273 249 511 91
**Step II:** 183 201 249 35 553 273 511 91
**Step III:** 183 201 249 273 35 553 511 91
**Step IV:** 183 201 249 273 35 91 553 511
**Step V:** 183 201 249 273 35 91 511 553
Since all the numbers get arranged in Step V according to the logic above, final output comes in Step V.

143. 1; **Step I:** 15 287 93 69 427 371 497 51
**Step II:** 15 51 287 93 69 427 371 497
**Step III:** 15 51 69 287 93 427 371 497
**Step IV:** 15 51 69 93 287 427 371 497

144. 4; Previous steps can't be determined in these types.

145. 3

**(146-151):** Here logic is very simple. It is a case of **Arrangement**. Input and following steps gives the following information:
In step I the word which comes first according to alphabetical order rearranges first.
In the second step the highest among the given numbers gets arranged and occupies the place after the word arranged in step I.
These two steps get repeated alternately. Thus, in the last step all the words get arranged alphabetically whereas numbers get arranged in descending order.
If any word or number is already arranged in any step, the next number or word is arranged.

146. 3;
**Input:** 98 11 64 22 but will an it
**Step I:** an 98 11 64 22 but will it
**Step II:** an 98 but 11 64 22 will it

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**Step III:** an 98 but 64 11 22 will it
**Step IV:** an 98 but 64 it 11 22 will
**Step V:** an 98 but 64 it 22 11 will
**Step VI:** an 98 but 64 it 22 will 11

147. 1; **Input:** 32 now 20 gift 53 box 62 at
**Step I:** at 32 now 20 gift 53 box 62
**Step II:** at 62 32 now 20 gift 53 box
**Step III:** at 62 box 32 now 20 gift 53
**Step IV:** at 62 box 53 32 now 20 gift

148. 4; **Input:** pay by 18 36 nose ear 72 54
**Step I:** by pay 18 36 nose ear 72 54
**Step II:** by 72 pay 18 36 nose ear 54
**Step III:** by 72 ear pay 18 36 nose 54
**Step IV:** by 72 ear 54 pay 18 36 nose
**Step V:** by 72 ear 54 nose pay 18 36
**Step VI:** by 72 ear 54 nose 36 pay 18

149. 2; **Step III:** damn 96 flag 87 78 14 saint put
**Step IV:** damn 96 flag 87 put 78 14 saint
**Step V:** damn 96 flag 87 put 78 saint 14
Step V is the last step. Therefore penultimate step is step IV.

150. 4; Previous steps cannot be determined.

151. 2; '17' cannot be before 'sky'.

**(152-157):**
Here the rule followed is: numbers are getting arranged in descending order.
The largest of the given numbers interchanges its place with the first number. In case the largest number is already arranged, the second largest is interchanged with the number next to the largest no., and so on, until the numbers are arranged in descending order.

152. 2; **Step I:** 97 47 23 79 27 11 19 31
**Step II:** 97 79 23 47 27 11 19 31
**Step III:** 97 79 47 23 27 11 19 31
**Step IV:** 97 79 47 31 27 11 19 23

153. 5; Four steps.
**Input:** 73 31 37 67 19 29 43 13
**Step I:** 73 67 37 31 19 29 43 13
**Step II:** 73 67 43 31 19 29 37 13
**Step III:** 73 67 43 37 19 29 31 13
**Step IV:** 73 67 43 37 31 29 19 13

154. 4; Since it is a case of 'arrangement' previous steps can't be determined with certainty.

155. 4; **Step III:** 79 61 53 41 19 11 43 13
**Step IV:** 79 61 53 43 19 11 41 13
**Step V:** 79 61 53 43 41 11 19 13

156. 3 157. 1

**(158-162):** It is a case of three-step type shifting. As you have read in our *Magical Book Series: Analytical Reasoning* by MK Pandey. in a 3-step type shifting, the change in going from Input to step I differs from the change from step I to step II and step II to step III. The change from Input to step I matches with the change from step III to step IV; the change from step I to step II matches with the change from step IV to step V; and the change from step II to step III matches with the change from step V to step VI.
Let us replace the word of the input by letters
pull = A, the = B, cover = C, and = D,
then = E, push = F, into = G

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| **Input:** | A | B | C | D | E | F | G |
| **Step I:** | A | B | E | D | C | F | G |
| **Step II:** | E | B | A | G | F | C | D |
| **Step III:** | G | A | B | E | D | C | F |
| **Step IV:** | G | A | D | E | B | C | F |
| **Step V:** | D | A | G | F | C | B | E |
| **Step VI:** | F | G | A | D | E | B | C |
| **Step VII:** | F | G | E | D | A | B | C |
| **Step VIII:** | E | G | F | C | B | A | D |

158. 5; Step VI
**Input:** Try your best until you get goal
A B C D E F G
get goal try until you your best
F G A D E B C
Now, see the chart. You get FGADEBC in step VI.

159. 2; **Step VI:** deep gutter ball into the has fallen
F G A D E B C
**Input:** A B C D E F G
ball has fallen into the deep gutter

160. 1; **Step IV:** we can't measure the depth without scale
G A D E B C F
**Step VII:** F G E D A B C
scale we the measure can't depth without

161. 4; **Input:** standing hard always is impossible for all
A B C D E F G
**Step VIII:** E G F C B A D
impossible all for always hard standing is

162. 3; **Step I:** play and jump until you tired fully
A B E D C F G
**Step VI:** F G A D E B C
tired fully play until jump and you

**(163-167):** Here the rule followed is:
**Step I:** The smallest number interchanges its position with the first number. [In case the first number is smallest then the next number just larger than it interchanges its position with the second number.]
**Step II:** The largest number interchanges its position with the last number. [In case the largest number is first from right end, the second largest number interchanges its position with the second number from right and so on.]
These steps are repeated alternately till the numbers get arranged in ascending order and that will be the last step for the particular input.

163. 5; **Input:** 50 26 82 28 43 94 68 63

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**Step I:** 26 50 82 28 43 94 68 63

164. 4; Since it is a case of arrangement previous steps can't be determined with certainty.

165. 2; **Input:** 75 25 50 40 100 70
**Step I:** 25 75 50 40 100 70
**Step II:** 25 75 50 40 70 100
**Step III:** 25 40 50 75 70 100
**Step IV:** 25 40 50 70 75 100
Since all the numbers get arranged in ascending order in step IV this is the last step for the given input.

166. 1; **Input:** 40 80 45 30 65 55 60
**Step I:** 30 80 45 40 65 55 60
**Step II:** 30 60 45 40 65 55 80
**Step III:** 30 40 45 60 65 55 80
**Step IV:** 30 40 45 60 55 65 80

167. 2; Because all the numbers in this step are arranged in ascending order.

**(168-172):** The logic is as follows: words get arranged alphabetically but the order of arrangement is a bit complicated — the first word from the beginning, then the last word (first from the end), again the second word from the beginning, followed by second word from the end, and so on.

168. 4; **Input:** What you are in life depends on your choice.
**Step I:** Are what you in life depends on your choice.
**Step II:** Are what you in life depends on choice your.

169. 3; **Input:** Mary had a little lamb.
**Step I:** A Mary had little lamb.
**Step II:** A had little lamb Mary.
**Step III:** A had lamb little Mary.

170. 1; *Penultimate* means "last but one".

171. 4; The no. of steps depends not only on the no. of words, but on the way they are arranged.

172. 5; This would be the input itself because if the machine carried out even one step, the word *acceptable* (first in alphabetical order) should have been placed at the beginning.

**(173-177):** The machine follows the following logic: the words are alphabetically arranged, but from the end. In the given example, *was* should be the last word alphabetically. So, first of all, *was* takes its position, interchanging its position with the word that occupied its position, ie *spot*. This goes on until the words get fully arranged.

173. 3

174. 5; **Input:** There is no confirmation yet of the job
**Step I:** There is no confirmation job of the yet
**Step II:** the is no confirmation job of there yet

175. 2; Note that Step III has only the last three words arranged. Which implies none of the last three words were in their place in the input. So (1) and (3) are not probable. Now, try others till one of them makes you reach the answer.

176. 3; **Input:** The blasts were aimed at our leader
**Step I:** The blasts leader aimed at our were
**Step II:** Our blasts leader aimed at the were

177. 4; **Input:** Both firms confirmed there were certain difficulties
**Step I:** Both firms confirmed there difficulties certain were
**Step II:** Both firms confirmed certain difficulties there were
**Step III:** Both difficulties confirmed certain firms there were
**Step IV:** Both certain confirmed difficulties firms there were
Thus step III will be the penultimate one.

**(178-182):** The logic of the machine is very simple. Words are arranged in the alphabetical order, one at a time.

178. 2

179. 5; See how the words will get arranged: Step I — *country*; step II — *does*; Step III — *have*; IV — *not*; V — *now*; VI — *policy*; VII — *the*. This would leave *till* automatically arranged. So Step VII would be the last step.

180. 2; **Input:** he will help to bring the forces together
**Step I:** bring he will help to the forces together
**Step II:** bring forces he will help to the together
**Step III:** bring forces he help will to the together

181. 5; For **(1):** Step I — *best*; II — *method*; III — *stop*. **Three steps.**
For **(2):** Step I — *assembly*; II — *been*; III — *have*; IV — *polls*. **More than three steps**. So leave it.
For **(3):** Step I — *be*; II — *blood*; III — *donation*; IV — *have*. Again, **more than three**. So no use going further.
For **(4):** Step I — *is*; II — *operation; III — performed*. And the sentence gets arranged.
Since both (1) and (4) are arranged in **only three steps**, we can't determine the input exactly.

182. 4

**(183-188):** Here the rule followed is: numbers are getting arranged in descending order according to their digit-sums.
The number which has the largest digit-sum interchanges its place with the first number. [In case the largest (digit-sum) number is already arranged, the second largest (digit-sum) number is interchanged with the number next to the largest (digit-sum) no.]
This goes on until the numbers are arranged in descending order of their digit-sums.

183. 4 184. 2 185. 5 186. 5

187. 4; Pattern of input shows that we can't find out the previous steps.

188. 1; **Input:** 700, 221, 261, 150, 22, 120, 02, 116
**Step I:** 261, 221, 700, 150, 22, 120, 02, 116
**Step II:** 261, 116, 700, 150, 22, 120, 02, 221
**Step III:** 261, 116, 700, 150, 221, 120, 02, 22
**Step IV:** 261, 116, 700, 150, 221, 22, 02, 120
**Step V:** 261, 116, 700, 150, 221, 22, 120, 02
Step V is the last step. Hence step IV is the penultimate step.

**(189-193):** Words and numbers both arrange among themselves only. That is, words can't take the place of

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numbers and vice versa.

For the arrangement of words, the basis is the no. of letters. That is, the one with the least no. of letters interchanges with the word at the leftmost position. If the no. of letters is equal, we follow the alphabetical order.

For the arrangement of numbers, we have to put them in ascending order. That is, the least number interchanges with the number at the leftmost position.

The change is made as and when we come across a word or a number, not necessarily alternately.

189. 4; **Input:** do 94 at well she it 20
**Step I:** at 94 do well she it 20
**Step II:** at 20 do well she it 94
**Step III:** at 20 do it she well 94

190. 5; **Input:** we 11 at 68 nice is by 23
**Step I:** at 11 we 68 nice is by 23
**Step II:** at 11 by 68 nice is we 23
**Step III:** at 11 by 23 nice is we 68
**Step IV:** at 11 by 23 is nice we 68

191. 4 192. 4 193. 1

**(194-200):**

The given trend of sample of Input and its steps indicate that the given problem is of the type of shifting.

Shifting of elements of Input to step I are as follows: (Each elements has been assigned a number)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | **Step I:** | 7 | 6 | 2 | 3 | 4 | 1 | 5 |
| From | **Step I:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | **Step II:** | 5 | 1 | 4 | 2 | 6 | 7 | 3 |
| From | **Step II:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | **Step III:** | 3 | 7 | 6 | 4 | 1 | 5 | 2 |

These three changes are repeated in successive steps.

If all the elements of the input are denoted by a different letter from left to right, the successive steps according to the above changes become as follows:

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| **Input:** | A | B | C | D | E | F | G |
| **Step I:** | G | F | B | C | D | A | E |
| **Step II:** | D | G | C | F | A | E | B |
| **Step III:** | C | B | E | F | D | A | G |
| **Step IV:** | G | A | B | E | F | C | D |
| **Step V:** | F | G | E | A | C | D | B |
| **Step VI:** | E | B | D | A | F | C | G |
| **Step VII:** | G | C | B | D | A | E | F |
| **Step VIII:** | A | G | D | C | E | F | B |
| **Step IX:** | D | B | F | C | A | E | G |
| **Step X:** | G | E | B | F | C | D | A |
| **Step XI:** | C | G | F | E | D | A | B |
| **Step XII:** | F | B | A | E | C | D | G |

On the basis of the above chart answer the questions.

194. 5; **Input:** target aim your dedicate now you in
(A) (B) (C) (D) (E) (F) (G)
**Step X:** G E B F C D A
in now aim you your dedicate target

195. 2; **Step III:** down dusk all risk by tea an
**From chart:** (C) (B) (E) (F) (D) (A) (G)
**Input:** A B C D E F G
tea dusk down by all risk an

196. 4 197. 3

198. 1; It is seventh step of the given input.

199. 1

200. 5; The direction and sample step of the input do not inform anything about the last step.

**(201-205):** The words are being arranged in alphabetical order. But words starting with vowels come before those starting with consonant in this special arrangement. Besides, the arrangement is done by interchange of words.

201. 3; **Step II:** about of work yet sky dwell under go
**Step III:** about of under yet sky dwell work go
**Step IV:** about of under dwell sky yet work go
**Step V:** about of under dwell go yet work sky
**Step VI:** about of under dwell go sky work yet

202. 4; Note that in case of questions related with input of arrangement type, you can't find out the input (or any previous step) with certainty with the help of any subsequent step.

203. 2; **Input:** sab kuch thik hai lala bhai ab ek
**Step I:** ab kuch thik hai lala bhai sab ek
**Step II:** ab ek thik hai lala bhai sab kuch
**Step III:** ab ek bhai hai lala thik sab kuch

204. 5; **Input:** kaka tam do and ebb in of work
**Step I:** and tam do kaka ebb in of work
**Step II:** and ebb do kaka tam in of work
**Step III:** and ebb in kaka tam do of work
**Step IV:** and ebb in of tam do kaka work

205. 4

**(206-212):** Here the rule followed is:

Assign each number a separate number value which is the product of the digits of each number.

The number which has been assigned smallest value is placed at first position in step I; and the remaining numbers shift one position rightward. [In case the first number has already been the smallest assigned value then the number which has been assigned the next value (just larger than it) will become second and rest will shift one position rightward and so on.]

If two or more numbers have been assigned equal values (product of digits) then priority is given to the number which is smaller/smallest in nature.

206. 4; Since the given input is of Arrangement type, among the three types of input as we studied in *Magical Book Series: Analytical Reasoning* written by MK Pandey, we can't find out previous steps.

207. 4; **Input:** 69 54 71 184 624 73 98 89 102 31

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**Step I:** 102 69 54 71 184 624 73 98 89 31
**Step II:** 102 31 69 54 71 184 624 73 98 89
**Step III:** 102 31 71 69 54 184 624 73 98 89
**Step IV:** 102 31 71 54 69 184 624 73 98 89
**Step V:** 102 31 71 54 73 69 184 624 98 89
**Step VI:** 102 31 71 54 73 184 69 624 98 89
**Step VII:** 102 31 71 54 73 184 624 69 98 89
**Step VIII:** 102 31 71 54 73 184 624 69 89 98

208. 2; **Step III:** 21 13 22 25 52 91 18 23 51 17
**Step IV:** 21 13 22 51 25 52 91 18 23 17
**Step V:** 21 13 22 51 23 25 52 91 18 17
**Step VI:** 21 13 22 51 23 17 25 52 91 18
**Step VII:** 21 13 22 51 23 17 18 25 52 91

209. 1; **Input:** 12 24 48 60 72 84 96 108 120 132
**Step I:** 60 12 24 48 72 84 96 108 120 132
**Step II:** 60 108 12 24 48 72 84 96 120 132
**Step III:** 60 108 120 12 24 48 72 84 96 132

210. 4; **Step II:** 67 238 444 98 445 734 925 862 96 69
**Step III:** 67 238 69 444 98 445 734 925 862 96
**Step IV:** 67 238 69 96 444 98 445 734 925 862
Hence, step IV is the last step. Therefore we can't find the fifth step.

211. 3; **Input:** 117 104 91 39 26 13 52 78 65 130
**Last Step:** 104 130 13 117 91 52 26 39 65 78
You do not need any calculation because you only need that sequence which is in proper order.

212. 5

**(213-217):** This type of problem is categorised as the input based on shifting. Let us take first two numbers of input, ie 676 and 729. we see that
0 to 1 $\neq$ 1 to 2
0 to 1 = 2 to 3
$\therefore$ It is 2 - type case See p-445, *Analytical Reasoning* by MK Pandey
The changes are as follows:
If Input is 1 2 3 4 5 6 7 then
**Step I:** 6 7 5 1 2 4 3
Again If Step I is 1 2 3 4 5 6 7 then
**Step II:** 7 4 2 1 3 5 6
Let 676 = A, 729 = B, 841 = C, 625 = D, 784 = E, 529 = F, 576 = G
Now chart can be prepared as follows:

| | |
|---|---|
| **Input:** | A B C D E F G |
| **Step I:** | F G E A B D C |
| **Step II:** | C A G F E B D |
| **Step III:** | B D E C A F G |
| **Step IV:** | G C D B E A F |
| **Step V:** | A F E G C B D |
| **Step VI:** | D G F A E C B |
| **Step VII:** | C B E D G A F |
| **Step VIII:** | F D B C E G A |

213. 4; **Input:** 324 289 144 256 361 441 400
A B C D E F G
**Given Step:** 441 256 289 144 361 400 324
F D B C E G A
From the chart-1 it is clear that it is step VIII.

214. 1; Since, sample input is 2-type case therefore subtract a multiple of 2 (ie 10) from both sides the step reduces as follows:
Step XI to Step XIII $\rightarrow$ Step I to Step III
**Hence Step I:** 324 441 289 256 361 144 400
F G E A B D C
**Step III:** B D E C A F G
361 144 289 400 256 324 441

215. 3; Step X to Step VI = Step IV to Step 0 = Step IV to Input (After reducing)
We have
Step IV: 676 121 196 225 169 256 625
G C D B E A F
Input: A B C D E F G
Hence, Input: 256 225 121 196 169 625 676

216. 2 217. 2

**(218-222):**
Here the last step of sample input is as follows:
tour and 69 in 64 24 door bask
$\Rightarrow$ (t + o + u + r) (a + n + d) 69 (i + n) 64 24 (d + o + o + r) (b + a + s + k) (Put place value of each letter)
$\Rightarrow$ (20 + 15 + 21 + 18) (1 + 14 +4) 69 (9 + 14) 64 24 (4 + 15 + 15 + 18 ) (2 + 1 + 19 + 11)
$\Rightarrow$ 74 19 69 23 64 24 52 33
Now from the above step it is clear that the numbers are arranged as follows: Largest, Smallest, Second largest, Second smallest, .... so on.
**From input to step I:** The element which has the largest value comes at the leftmost position. **From step I to step II:** The element which has the smallest value comes at the immediate right of the largest element. (In case the element which has the smallest value is already arranged than arrange the second largest.) Thus, all the elements get arranged.

218. 5 219. 4 220. 4 221. 1 222. 1

**(223-227):** Clearly, in the given arrangement, the numbers of each type have been arranged in ascending order, ie prime numbers are arranged first in ascending order, then non-prime odd numbers, and finally even numbers.
Also, when a number is arranged, it interchanges its position with the wrongly placed number.

223. 1; **Input:** 117, 63, 11, 18, 93, 4, 6, 13, 17
**Step I:** 11, 63, 117, 18, 93, 4, 6, 13, 17
**Step II:** 11, 13, 117, 18, 93, 4, 6, 63, 17
**Step III:** 11, 13, 17, 18, 93, 4, 6, 63, 117
**Step IV:** 11, 13, 17, 63, 93, 4, 6, 18, 117
**Step V:** 11, 13, 17, 63, 93, 117, 6, 18, 4
**Step VI:** 11, 13, 17, 63, 93, 117, 4, 18, 6
**Step VII:** 11, 13, 17, 63, 93, 117, 4, 6, 18

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224. 3; **Input:** 91, 92, 93, 94, 95, 96, 97, 83, 89
**Step I:** 83, 92, 93, 94, 95, 96, 97, 91, 89
**Step II:** 83, 89, 93, 94, 95, 96, 97, 91, 92
**Step III:** 83, 89, 97, 94, 95, 96, 93, 91, 92
**Step IV:** 83, 89, 97, 91, 95, 96, 93, 94, 92

225. 2; **Step II:** 53,59, 68,61,35,45,25,72,76
**Step III:** 53, 59, 61, 68, 35, 45, 25, 72, 76
**Step IV:** 53, 59, 61, 25, 35, 45, 68, 72, 76

226. 4; Don't solve it step by step. Just bear the particular order of ascending orders in mind for prime, odd and even numbers.

227. 4; Previous steps can't be determined in these types.

**(228-234):** There are eight two-digit numbers in the Input.
42 69 18 86 74 47 82 79
After interchanging the two digits of each number the new form of input appears as follows:
24 96 81 68 47 74 28 97
Now, the first number and the second number interchange their positions, similarly the third and the fourth number, and so on, and this forms step I.
In step II the first four numbers and the last four numbers start getting arranged according to ascending order. In both half of the numbers of step I, the least number comes first and remaining numbers shift rightward. Thus moving ahead when the numbers get fully arranged it becomes penultimate step.
The two digits of each number of the penultimate step interchange. And after this interchanging the first number interchanges with the second, the third with the fourth, and so on, and forms the last step.

228. 2; **Step I:** 23 29 39 91 12 93 28 18
**Input:** 92 32 19 93 39 21 81 82

229. 3; **Step I:** 28 84 16 42 98 32 56 14
**Step II:** 16 28 84 42 14 98 32 56
**Step III:** 16 28 42 84 14 32 98 56

230. 3; **Step I:** 12 36 72 84 24 96 94 48
**Step II:** 12 36 72 84 24 48 96 94
**Step III:** 12 36 72 84 24 48 94 96
**Step IV:** 63 21 48 27 84 42 69 49

231. 4; **Input:** 24 48 61 82 23 41 89 65
**Step I:** 84 42 28 16 14 32 56 98
**Step II:** 16 84 42 28 14 32 56 98
**Step III:** 16 28 84 42 14 32 56 98
**Step IV:** 16 28 42 84 14 32 56 98
**Step V:** 82 61 48 24 23 41 89 65

232. 2; **Input:** 26 78 39 65 13 91 52 99
**Step I:** 87 62 56 93 19 31 99 25
**Step II:** 56 87 62 93 19 25 31 99
**Step III:** 56 62 87 93 19 25 31 99
**Step IV:** 26 65 39 78 52 91 99 13

233. 1 234. 4

**(235-240):** The logic is very simple:
If an input starts with a word whose first letter is a vowel, then all the words whose first letter is vowel get arranged alphabetically in subsequent steps. Following it, all the words which starts with a consonant get arranged alphabetically in subsequent steps.
But if an input starts with a word whose first letter is a consonants then all the words whose first letter is a consonant get arranged alphabetically in subsequent steps. Following it, all the words which start with a vowel get arranged alphabetically in subsequent steps.
If any word is already arranged then the next word is arranged according to the logic.

235. 4; **Input:** minor out of each for also the bank
**Step I:** bank minor out of each for also the
**Step II:** bank for minor out of each also the
**Step III:** bank for minor the out of each also
**Step IV:** bank for minor the also out of each
**Step V:** bank for minor the also each out of
**Step VI:** bank for minor the also each of out

236. 5; What do you observe in the given fourth step? You get that the words started with vowels occupy positions before the words started with consonants. Hence, input of the given fourth step must start with a word which starts with a vowel.

237. 2; **Input:** who nut cream page for after and on
**Step I:** cream who nut page for after and on
**Step II:** cream for who nut page after and on
**Step III:** cream for nut who page after and on
**Step IV:** cream for nut page who after and on

238. 4; We can't find previous steps because the logic is based on the internal properties of the elements of an input, ie arrangement.

239. 4; We do not know about the place of 'an' in the input. That is why we can't say about the last three words of the input.

240. 4; Fourth step is the last step. Hence, fifth step is not possible.

**(241-246):** Here the rule followed is: The sum of the digits is calculated. Then in step I, the number with lowest sum of its digits interchanges with the first number. [If the first number has already the lowest sum of its digits then the number with second lowest sum of its digits interchanges with the second number.] The process continues until the numbers get arranged in ascending order on the basis of their sum of digits.

241. 2; **Input:** 745, 526, 638, 898, 968, 572, 243
(16) (13) (17) (25) (23) (14) (9)
**Step I:** 243, 526, 638, 898, 968, 572, 745
**Step II:** 243, 526, 572, 898, 968, 638, 745
**Step III:** 243, 526, 572, 745, 968, 638, 898

242. 1; **Input:** 436, 572, 343, 697, 254, 123, 758
(13) (14) (10) (22) (11) (6) (20)
**Step I:** 6 14 10 22 11 13 20

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**Step II:** 6 10 14 22 11 13 20
**Step III:** 6 10 11 22 14 13 20
**Step IV:** 6 10 11 13 14 22 20
**Step V:** 6 10 11 13 14 20 22
[**Note:** It is easy to proceed with the help of sum of digits and substitute if required.]

243. 3; **Input:** 353, 423, 725, 576, 514, 535, 628
(11) (9) (14) (18) (10) (13) (16)
**Step I:** 9 11 14 18 10 13 16
**Step II:** 9 10 14 18 11 13 16
**Step III:** 9 10 11 18 14 13 16
or, 423, 514, 353, 576, 725, 535, 628

244. 4; **Step II:** 521, 325, 443, 645, 967, 634, 788
(8) (10) (11) (15) (22) (13) (23)
**Step III:** 8 10 11 13 22 15 23
**Step IV:** 8 10 11 13 15 22 23
Since the numbers are already arranged in fourth step, there will be no fifth step.

245. 4; Previous steps can't be determined.

246. 1

**(247-252):** Let us find out the logic: In Step I, the first three words get reversed while fourth and sixth, and fifth and seventh interchange their positions. In Step II, the last three words get reversed while the first and third, and second and fourth interchange their positioins. In step III, the middle three words get reversed and the alternate words interchange among themselves in the remaining four. From Step III to Step IV, changes are similar to those from Input to Step I. And so on. Now if we mark the words in the input by digits 1 to 7 respectively, the digital arrangement will be:
**Input:** 1 2 3 4 5 6 7
**Step I:** 3 2 1 6 7 4 5
**Step II:** 1 6 3 2 5 4 7
**Step III:** 4 7 5 2 3 1 6
**Step IV:** 5 7 4 1 6 2 3
**Step V:** 4 1 5 7 3 2 6
**Step VI:** 2 6 3 7 5 4 1
**Step VII:** 3 6 2 4 1 7 5
**Step VIII:** 2 4 3 6 5 7 1

247. 3; **Input:** we generally do not focus on them
1 2 3 4 5 6 7
**Arrangement:** do on generally not we them focus
**Step VII:** 3 6 2 4 1 7 5

248. 1; **Step V:** designer suit reflect not just class but
4 1 5 7 3 2 6
**Step I:** 3 2 **1 6 7** 4 5
suit but not

249. 4; **Step II:** these are clouds over the Indian mind
1 6 3 2 5 4 7
**Step VIII:** 2 4 3 6 5 7 1
over Indian clouds are the mind these

250. 2; **Input:** not only has he stolen the hearts
1 2 3 4 5 6 7
**Step V:** 4 1 5 7 3 2 6
he not stolen hearts has only the

251. 5; **Step VII:** let us love respect protect these birds
3 6 2 4 1 7 5
**Input:** 1 2 3 4 5 6 7
protect love let respect birds us these

252. 3; **Input:** make our planet look beautiful and lively
1 2 3 4 5 6 7
Hence: make and our planet
1 6 2 3
These are the last four words of step IV.

**(253-258):** Here the rule followed is:
The last word of the previous step becomes first and the first and second words shift rightwards, i.e. become second and third respectively. Now the secondlast and the thirdlast words of the previous step become fourth and fifth respectively, and the third, fourth and fifth become sixth, seventh and eighth respectively.
For convenience, we assign numeric values to these words as: he-1, is-2, young-3, energetic-4, and-5, good-6, looking-7, fellow-8
**Input:** 1 2 3 4 5 6 7 8
**Step I:** 8 1 2 7 6 3 4 5
**Step II:** 5 8 1 4 3 2 7 6
**Step III:** 6 5 8 7 2 1 4 3
**Step IV:** 3 6 5 4 1 8 7 2
**Step V:** 2 3 6 7 8 5 4 1
**Step VI:** 1 2 3 4 5 6 7 8
Step VI is the same as input. Hence this step onwards, steps will be same as above.

253. 3; **Step III:** Shaiamak Davar is the man behind Hrithik steps
6 5 8 7 2 1 4 3
**Step VI:** 1 2 3 4 5 6 7 8
behind man steps Hrithik Davar Shaiamak the is

254. 1; **Step II:** Raju Chacha is whole new experience for Bollywood
5 8 1 4 3 2 7 6
**Step V:** 2 3 6 7 8 5 4 1
experience new Bollywood for Chacha Raju whole is

255. 2; **Step V:** I have not been told any thing officially
2 3 6 7 8 5 4 1
**Input:** 1 2 3 4 5 6 7 8
officially I have thing any not been told

256. 1

257. 2; **Input:** composer and singer Edwin has come out with
1 2 3 4 5 6 7 8
**Arrangement:** singer come has Edwin composer with out and
**Step IV:** 3 6 5 4 1 8 7 2

258. 3; **Input:** but Sophiya landed role a in snip accidenally
1 2 3 4 5 6 7 8
**Step I:** accidentally but Sophiya snip in landed role a (option 4)

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**Step II:** a accidentally but role landed Sophiya snip in
**Step III:** in a accidentally snip Sophiya but role landed (option 2)
**Step IV:** landed in a role but accidentally snip Sophiya
**Step V:** Sophiya landed in snip accidentally a role but (option 1)

**(259-263):** Here the rule followed is: Numbers are getting arranged in ascending order. The largest no. interchanges with the last-position no. Then the smallest no. interchanges with the first-position no. Next, the second largest no. interchanges with the secondlast position no. And so on.

[**Note:** In step IV it is clear that when second smallest no.. is already set, the no. just larger to it interchanges with the next no.. From this it is clear that in **odd step** we should deal with larger no. and in **even step** we should deal with smaller no.]

259. 4; Previous steps can't be determined.

260. 1; **Step II:** 91, 326, 147, 271, 193, 371, 416
**Step III:** 91, 193, 147, 271, 326, 371, 416
**Step IV:** 91, 147, 193, 271, 326, 371, 416

261. 3; Last step can be found directly as the machine sets the given no. in ascending order.

262. 5; **Input:** 18, 93, 11, 43, 113, 65, 8, 58
**Step I:** 18, 93, 11, 43, 58, 65, 8, 113
**Step II:** 8, 93, 11, 43, 58, 65, 18, 113
**Step III:** 8, 18, 11, 43, 58, 65, 93, 113
**Step IV:** 8, 11, 18, 43, 58, 65, 93, 113

263. 2; **Step III:** 20, 27, 85, 165, 133, 47, 185, 220
**Step IV:** 20, 27, 47, 165, 133, 85, 185, 220
**Step V:** 20, 27, 47, 85, 133, 165, 185, 220

**(264-268): From input to step I:** The first and the last (i.e. seventh) words are interchanged; so are the second and third.
**From step I to step II:** The first and the second words are interchanged; so are the third and fourth; and so are the sixth and seventh.
**From step II to step III:** Same as input to step I.
**From step III to step IV:** Same as step I to step II.
These steps are repeated thereafter. For convenience, we plot the movement of each word in each step by the numbers assigned to them in the input: television-1, news-2, is-3, more-4, newsy-5, than-6, ever-7.

**Input:** 1 2 3 4 5 6 7
**Step I:** 7 3 2 4 5 6 1
**Step II:** 3 7 4 2 5 1 6
**Step III:** 6 4 7 2 5 1 3
**Step IV:** 4 6 2 7 5 3 1
**Step V:** 1 2 6 7 5 3 4
**Step VI:** 2 1 7 6 5 4 3
**Step VII:** 3 7 1 6 5 4 2

264. 2; **Input:** drink with your favourite cup of joy.
1 2 3 4 5 6 7
**Arrangement:** your joy drink of cup favourite with
3 7 1 6 5 4 2

265. 4; **Step VI:** did the stock index rise further more
2 1 7 6 5 4 3
**Input:** 1 2 3 4 5 6 7
the did more further rise index stock

266. 3; **Step II:** is it been quite rewarding so far
3 7 4 2 5 1 6
**Step VII:** 3 7 1 6 5 4 2
is it so far rewarding been quite

267. 2; **Input:** I am sure people will like music
1 2 3 4 5 6 7
**Step V:** 1 2 6 7 5 3 4
I am like music will sure people

268. 5; **Step IV:** what sets this film apart from other
4 6 2 7 5 3 1
**Step I:** 7 3 2 4 5 6 1
film from this what apart sets other

**(269-273):**
In **Step I**, the third word comes at the beginning and the first and second words are pushed rightwards. Also, the fourth word goes at the end and the remaining words are pushed leftwards.
In **Step II**, the fourth word from the previous step comes at the begining while the first three words are pushed rightwards. Also, the fifth word of Step I goes at the end and the remaining words are pushed leftwards.
These steps are repeated thereafter.
For the sake of convenience, assign numbers to each word of the input; e.g. when-1, it-2, comes-3, of-4, the-5, high-6, skies-7.
Then we have

**Input:** 1 2 3 4 5 6 7
**Step I:** 3 1 2 5 6 7 4
**Step II:** 5 3 1 2 7 4 6
**Step III:** 1 5 3 7 4 6 2
**Step IV:** 7 1 5 3 6 2 4
**Step V:** 5 7 1 6 2 4 3
**Step VI:** 6 5 7 1 4 3 2
**Step VII:** 7 6 5 4 3 2 1
**Step VIII:** 4 7 6 5 2 1 3

269. 4; From the table the numbers in step II are
5 3 1 2 7 4 6
I am off to Goa with friends
In Step VII, we have the numbers arranged as
7 6 5 4 3 2 1
Goa friends I with am to off

270. 2; **Input:** he was going to be in town
1 2 3 4 5 6 7
**Step IV:** 7 1 5 3 6 2 4
town he be going in was to

271. 3; **Step IV:** enjoy a well planned new year night
7 1 5 3 6 2 4
**Step VIII:** 4 7 6 5 2 1 3
night enjoy new well year a planned

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272. 2; **Input:** his sister left him alone in park
1 2 3 4 5 6 7
**Arrangement:** in alone park his him left sister
**Step VI:** 6 5 7 1 4 3 2

273. 4; **Step V:** I have two dog red and black
5 7 1 6 2 4 3
**Input:** 1 2 3 4 5 6 7
two red black and I dog have

**(274-278):** Here the rule followed is: first the odd numbers are getting arranged in ascending order and then the even numbers in ascending order.
First, the smallest odd number comes at the first position and the rest shift rightwards. The process continues untill all the odd nos. are arranged in ascending order.
After the arrangement of odd nos. the smallest even no. comes after the largest odd no. and the rest shift rightwards. The process terminates only when the even nos. also arrange themselves in ascending order.

274. 3; **Input:** 78 64 136 11 65 21 43 152
**Step I:** 11 78 64 136 65 21 43 152
**Step II:** 11 21 78 64 136 65 43 152
**Step III:** 11 21 43 78 64 136 65 152
**Step IV:** 11 21 43 65 78 64 136 152
**Step V:** 11 21 43 65 64 78 136 152

275. 2; Last step can be written directly.

276. 3; **Step II:** 31 53 106 87 73 22 64 48
**Step III:** 31 53 73 106 87 22 64 48
**Step IV:** 31 53 73 87 106 22 64 48
**Step V:** 31 53 73 87 22 106 64 48
**Step VI:** 31 53 73 87 22 48 106 64

277. 4 278. 5

**(279-283):** From the last step it is clear that two alternate series: a no. series and a word series are established. The no. series is in ascending order, while the word series follows the rule of English dictionary. The word which appears later in the dictionary comes first in the series.
To establish the series, first the word, which appears later in the dictionary comes at the first position and the rest shift one position rightwards. Similarly, the least no. comes at the second position and the rest shift one position rightwards. The process continues until the required series is set up.

279. 4; Previous step can't be determined.

280. 1; Last step can be written directly.

281. 2; **Input:** Mission impossible 2 13 7 oscar winner 19
**Step I:** Winner mission impossible 2 13 7 oscar 19
**Step II:** Winner 2 mission impossible 13 7 oscar 19
**Step III:** Winner 2 oscar mission impossible 13 7 19
**Step IV:** Winner 2 oscar 7 mission impossible 13 19
**Step V:** Winner 2 oscar 7 mission 13 impossible 19

282. 3; **Input:** Seven Razor Fifty 50 12 7 One 1
**Step I:** Seven 1 Razor Fifty 50 12 7 One
**Step II:** Seven 1 Razor 7 Fifty 50 12 One
**Step III:** Seven 1 Razor 7 One Fifty 50 12
**Step IV:** Seven 1 Razor 7 One 12 Fifty 50
Hence, step III is the penultimate step.

283. 2; **Step II:** where 9 here 18 there 12 near 17
**Step III:** where 9 there here 18 12 near 17
**Step IV:** where 9 there 12 here 18 near 17
**Step V:** where 9 there 12 near here 18 17

**(284-289):** Here the rule followed is:
Divide the input into two parts. The middle word does not change its position. The words of both halves arrange themselves following the English dictionary order. The word which appears first in the dictionary comes at the first position and the rest shift one position rightwards. The process continues until the words of both halves are arranged.

284. 4; **Input:** I went to college to meet my dearest friend
**Step I:** college I went to to dearest meet my friend
**Step II:** college I to went to dearest friend meet my
As step II is the last step, there will be no third step.

285. 4; Previous step can't be determined.

286. 3; **Input:** Sohan Shyam Ramesh and Sudha are my good friend
**Step I:** and Sohan Shyam Ramesh Sudha are friend my good
**Step II:** and Ramesh Sohan Shyam Sudha are friend good my
**Step III:** and Ramesh Shyam Sohan Sudha are friend good my
Step III is the last step. Hence step II is the penultimate step.

287. 2; **Input:** The expose also links the PMO to a sleaze
**Step I:** also the expose links the a PMO to sleaze
**Step II:** also expose the links the a PMO sleaze to
**Step III:** also expose links the the a PMO sleaze to

288. 1; **Step I:** and the country's political defence establishments were rocked on.
**Step II:** and country's the political defence establishments on were rocked.
**Step III:** and country's political the defence establishments on rocked were.

289. 4; For Input of eleven words (= 5 + 1 + 5)
maximum of (5 - 1 =) 4 steps is possible.

**(290-294):**
Here words are arranged in such a way that word with maximum no. of letters is at leftmost position followed by words with lesser letters. If two words have same no. of letters they are arranged as they came in an English dictionary.

290. 3; **Input:** in this rounded book to most answer figures
**Step I:** figures in this rounded book to most answer
**Step II:** figures rounded in this book to most answer

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**Step III:** figures rounded answer in this book to most
**Step IV:** figures rounded answer book in this to most

291. 5; **Input:** the accidentally face had Samurai caught hero tragic
**Step I:** accidentally the face had Samurai caught hero tragic
**Step II:** accidentally Samurai the face had caught hero tragic
**Step III:** accidentally Samurai caught the face had hero tragic
**Step IV:** accidentally Samurai caught tragic the face had hero
**Step V:** accidentally Samurai caught tragic face the had hero
**Step VI:** accidentally Samurai caught tragic face hero the had

292. 4; Previous step can't be determined.

293. 4

294. 3; As there are seven words in the input, it will arrange accordingly in maximum six steps and all steps after it will be the same arranged one.

**(295-301):** The following is the logic:
**Input to step I:** The smallest no. comes to the leftmost position and the rest shift rightward.
**Step I to Step II:** The largest no. comes to the rightmost position and the rest shift leftward.
And thus we go on arranging the nos. on left and right alternately till the final arrangement is in ascending order.

295. 4; We can't proceed backwards.

296. 4; **Input:** 111, 81, 62, 40, 63, 36, 173, 29, 141, 74
**Step I:** 29, 111, 81, 62, 40, 63, 36, 173, 141, 74
**Step II:** 29, 111, 81, 62, 40, 63, 36, 141, 74, 173
**Step III:** 29, 36, 111, 81, 62, 40, 63, 141, 74, 173
**Step IV:** 29, 36, 111, 81, 62, 40, 63, 74, 141, 173
**Step V:** 29, 36, 40, 111, 81, 62, 63, 74, 141, 173
**Step VI:** 29, 36, 40, 81, 62, 63, 74, 111, 141, 173
**Step VII:** 29, 36, 40, 62, 81, 63, 74, 111, 141, 173
**Step VIII:** 29, 36, 40, 62, 63, 74, 81, 111, 141, 173

297. 1; **Input:** 56, 72, 94, 148, 36, 16, 213, 62, 89, 129
**Step I:** 16, 56, 72, 94, 148, 36, 213, 62, 89, 129
**Step II:** 16, 56, 72, 94, 148, 36, 62, 89, 129, 213
**Step III:** 16, 36, 56, 72, 94, 148, 62, 89, 129, 213
**Step IV:** 16, 36, 56, 72, 94, 62, 89, 129, 148, 213

298. 1; **Step II:** 29, 52, 47, 91, 66, 142, 111, 193
**Step III:** 29, 47, 52, 91, 66, 142, 111, 193
**Step IV:** 29, 47, 52, 91, 66, 111, 142, 193
**Step V:** 29, 47, 52, 66, 91, 111, 142, 193

299. 2; **Input:** 50, 69, 19, 101, 88, 61, 26, 74
**Step I:** 19, 50, 69, 101, 88, 61, 26, 74
**Step II:** 19, 50, 69, 88, 61, 26, 74, 101

300. 3; The last step will be the one arranged fully in ascending order.

301. 5; **Input:** 66, 97, 203, 117, 154, 72, 51, 83
**Step I:** 51, 66, 97, 203, 117, 154, 72, 83
**Step II:** 51, 66, 97, 117, 154, 72, 83, 203
**Step III:** 51, 66, 97, 117, 72, 83, 154, 203
**Step IV:** 51, 66, 72, 97, 117, 83, 154, 203
**Step V:** 51, 66, 72, 97, 83, 117, 154, 203

**(302-306):**
**Step 1:** is the sum of digits of the numbers in the input.
**Step 2:** is the digit-sum of the numbers in step 1.
**Step 3:** is obtained by squaring the numbers in step 2 and then subtracting '4' (Some numbers could be negative.)
**Step 4:** is the sum of digits of the numbers in step 3.
**Step 5:** There are seven numbers. So positional numbers are 1, 2, 3, 4, 5, 6 and 7. We have to add the squares of these positional numbers to the numbers in step 4.
**Step 6:** We add 10 to the numbers in step 5.
**Step 7:** is the sum of digits of numbers in step 6.

302. 3; **Input:** 14, 19, 21, 38, 43, 62, 81
**Step 1:** 5, 10, 3, 11, 7, 8, 9
**Step 2:** 5, 1, 3, 2, 7, 8, 9
**Step 3:** 21, -3, 5, 0, 45, 60, 77
**Step 4:** 3, -3, 5, 0, 9, 6, 14
**Step 5:** 4, 1, 14, 16, 34, 42, 63

303. 5; **Step 2:** 5, 6, 4, 1, 9, 1, 8
**Step 3:** 21, 32, 12, -3, 77, -3, 60
**Step 4:** 3, 5, 3, -3, 14, -3, 6
**Step 5:** 4, 9, 12, 13, 39, 33, 55
**Step 6:** 14, 19, 22, 23, 49, 43, 65
**Step 7:** 5, 10, 4, 5, 13, 7, 11

304. 5; **Input:** 11, 17, 22, 34, 8, 25, 14
**Step 1:** 2, 8, 4, 7, 8, 7, 5
**Step 2:** 2, 8, 4, 7, 8, 7, 5
**Step 3:** 0, 60, 12, 45, 60, 45, 21
**Step 4:** 0, 6, 3, 9, 6, 9, 3
**Step 5:** 1, 10, 12, 25, 31, 45, 52
**Step 6:** 11, 20, 22, 35, 41, 55, 72
**Step 7:** 2, 2, 4, 8, 5, 10, 9

305. 5; **Input:** 18, 11, 24, 39, 15, 61
**Step 1:** 9, 2, 6, 12, 6, 7
**Step 2:** 9, 2, 6, 3, 6, 7
**Step 3:** 77, 0, 32, 5, 32, 45
**Step 4:** 14, 0, 5, 5, 5, 9

306. 3; Previous step can't be determined in such cases.

**(307-311):** If you study the given logic carefully you will follow that the algorithm works on the sequence from two ends, alternately.
**(1)** In step I, the largest number is placed at the end (7th position) by interchanging with the number at 7th position. Similarly, in step III we place the second largest number at the 6th position by exchanging it with the number at 6th position; in step V, the third largest and 5th position are interchanged; and so on.
**(2)** In step II, the smallest number is placed at 1st position and all other numbers are shifted to the right. Similarly, in step IV we will put the second smallest number at 2nd position and shift all other letters to the right; in step VI we will put the 3rd smallest number at 3rd position, ..., and so on.
[**Note**: However, there is one catch. The catch is that every step must do *something*. Thus, if the 2nd smallest number (7) is already at 2nd position the step does the next

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job of putting the 3rd smallest number (8) at 3rd position.]

307. 1; **Input:** 6 10 18 72 8 5 24
**Ist step:** 6 10 18 24 8 5 72
**IInd step:** 5 6 10 18 24 8 72
**IIIrd step:** 5 6 10 18 8 24 72

308. 4; Since the machine arranges a series in ascending order, only a series so arranged could be the last step.

309. 4; **Input:** 30 20 18 12 9 6 5
**Ist step:** 5 20 18 12 9 6 30
**IInd step:** 5 6 20 18 12 9 30
[**Note:** Since the smallest digit is already at 1st place, this step brings the next larger number (6) at 2nd place.]
**IIIrd step:** 5 6 9 18 12 20 30
**IVth step:** 5 6 9 12 18 20 30

310. 3; For a completely disorganised series step I would put largest digit at 7th place, step II would put smallest digit at 1st place, step III would put second largest digit at 6th place, step IV would put second smallest digit at 2nd place, step V would place 3rd largest digit at 5th place while step VI would put 3rd smallest digit at 3rd place. After this step, the 4th place will be automatically occupied by the 4th largest digit.

311. 5; **Quicker Method:** We have seen in the example (given before the questions) itself that if a particular number is already at its place, the machine in that step puts the next digit at its correct place. (As the machine finds in step IV that 7 is already at 2nd place, so it puts 8 at 3rd place.) This means that **whenever a number already appears at its due place the machine saves one step.**
On the basis of this rule we can develop the following two golden rules to have a quick solution:
**1)** To begin with we can eliminate those choices where the smallest digit is already at the 1st place or the largest digit is at the last place.
**2)** If not, then we shall have to write down the steps but there also we will eliminate a choice if any digit appears at its due place doing any of the later steps.
Now, let us look at the choices. Choice (1) will definitely take 2 steps less than usual as smallest and largest digits are already at the due places. Choice (3) has the largest digit at its due place while choice (4) has the smallest digit at its due place. This leaves choices (2) and (5). Let us see choice (2) and (5). Let us see choice (2):
**Input :** 8 6 1 2 5 4 3
**Ist step :** 3 6 1 2 5 4 8
**IInd step :** 1 3 6 2 5 4 8
**IIIrd step :** 1 3 4 2 5 6 8
**IVth step :** 1 2 3 4 5 6 8
So the input is rearranged in 4 steps. What about choice (5)? Let's see.
**Input** : 8 6 7 9 5 10 4
**Ist step** : 8 6 7 9 5 4 10
**IInd step** : 4 8 6 7 9 5 10
**IIIrd step** : 4 8 6 7 5 9 10
**IVth step** : 4 5 8 6 7 9 10
**Vth step** : 4 5 7 6 8 9 10
**VIth step** : 4 5 6 7 8 9 10

**(312-316):** The rule is extremely simple. It consists of the following steps:
i) Find the word appearing last in the dictionary.
ii) Place this word at the end by exchanging it with the word that is presently at the end.
iii) Repeat the same procedure with words appearing second from last, third from last etc in the dictionary.

312. 3; **Input:** She looked smilingly at my shyness
**1st step:** She looked shyness at my smilingly
**2nd step:** She looked my at shyness smilingly
**3rd step:** At looked my she shyness smilingly

313. 3; **Input:** We came to the cottage nearby
**Step I:** Nearby came to the cottage we
**Step II:** Nearby came cottage the to we
**Step III:** Cottage came nearby the to we
**Step IV:** Came cottage nearby the to we

314. 4; Let us find the third step for the suggested inputs:
**Input:** I go to a film today.
**Step I:** I go film a to today.
**Step II:** A go film I to today.
**Step III:** A film go I to today.
Hence 1 is not correct.
**Input:** Today I go to a film.
**Step I:** Film I go to a today.
**Step II:** Film I go a to today.
**Step III:** Film a go I to today.
Hence 2 is not correct.
**Input:** Today I to a film go.
**Step I:** Go I to a film today.
**Step II:** Go I film a to today.
**Step III:** Go a film I to today.
Hence 3 is not correct.
**Input :** Today to a film I go.
**Step I:** Go to a film I today.
**Step II:** Go I a film to today.
**Step III:** Go film a I to today.
Hence 4 is a correct choice.

315. 1; **Input :** She comes to a lonely spot
**Step I :** She comes spot a lonely to
**Step II :** She come lonely a spot to

316. 3; **Input :** Give me the fire of love
**Step I:** Give me love fire of the
**Step II:** Give fire love me of the
**Step III:** Fire give love me of the

**(317-321):** What is the logic here? In what fashion are the words arranged? They are arranged on the basis of the number of letters : first a two-letter word, then a three-

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letter one followed by a four-letter, and so on in ascending order. When two words have the same number of letters, the priority is decided on an alphabetical basis. Hence 'man' comes before 'the' and 'lose' before 'will'.

317. 4; **Input:** With his government facing a crisis
**Step I:** A with his government facing crisis
**Step II:** A his with government facing crisis
**Step III:** A his with crisis government facing

318. 5; *On* is already arranged ; so step I arranges *to*. In step II, *last* is arranged ; in step III, *year* ; in step IV, *early*; in step V, *power*. Now, *coming* gets automatically arranged. Thus, five steps.

319. 2; **Input:** Bankers expectations were running high today
**Step I:** High bankers expectations were running today
**Step II:** High were bankers expectations running today

320. 2; We have to see the number of steps for each choice:
**Choice 1:** 1 - next : 2 - week ; 3 - will ; 4 - contain
**Choice 2:** 1 - of ; 2 - to ; 3 - the ; 4 - flow ; 5 - speed; 6 - credit
**Choices 3 and 4:** No need to go through arranging. Arranging n words will never take more than (n-1) steps. So, at most there may be 4 steps for choice 3 and 5 steps for choice 4, both of which are lesser than the 6 steps for choice 2.
**Choice 5:** 1 - of ; 2 - for ; 3 - growth
Thus, choice 2 takes the maximum no. of steps - 6.

321. 2; Try each of the choices until you get the answer.

**(322-326):** The largest no. goes to the left and the no. on left goes to the position of the largest no. In the next step, the second largest no. interchanges its position with the one second on the left. And so on, until the numbers are arranged in a descending order.

322. 2; **Input:** 17, 29, 39, 6, 28, 55, 2
**Step I:** 55, 29, 39, 6, 28, 17, 2
**Step II:** 55, 39, 29, 6, 28, 17, 2
**Step III:** 55, 39, 29, 28, 6, 17, 2

323. 4; This one is easy. The last step will put all the numbers in descending order.

324. 1; It is easy to rearrange this series since it is already arranged, though in an ascending order. You just need to arrange each of the elements from one half; the rest will automatically get arranged.

325. 5; Try each of the inputs: you will find (1) takes five steps, (2) four steps, (3) three steps, (4) two steps, whereas (5) takes six steps.

326. 5; **Input:** 35, 91, 56, 69, 67, 39, 26
**Step I:** 91, 35, 56, 69, 67, 39, 26
**Step II:** 91, 69, 56, 35, 67, 39, 26

**(327-331): Here is rule followed is:**
**Shift I to Shift II:** The second, fourth and sixth words become the first three and the first, third and fifth become the last three.
**Shift II to Shift III:** Same as Shift I to Shift II.
**Shift III to Shift IV:** The fifth, third and the first words get arranged as the first three then sixth, fourth and second words.
**Shift IV to Shift V:** Same as Shift I to Shift II
For the sake of conveneince let us represent the words digitally as: Chang - 1, Bone - 2, Exi - 3, Dug - 4, Gai - 5, Fack - 6.
**Shift 1:** 1 2 3 4 5 6
**Shift 2:** 2 4 6 1 3 5
**Shift 3:** 4 1 5 2 6 3
**Shift 4:** 6 5 4 3 2 1
**Shift 5:** 5 3 1 6 4 2
**Shift 6:** 3 6 2 5 1 4

327. 1; It is written above in Shift 6.

328. 3; Denote the given code as: Yi = 1, Zen = 2, Bec = 3, Chi = 4, Kai = 5 and Hoi = 6 and then arrange them as that of shift 5, i.e. 5 3 1 6 4 2.

329. 5; Arrange them as the arrangement of shift 3, i.e. 4 1 5 2 6 3

330. 3; **Shift 3 (3 pm - 4 pm):** 4 1 5 2 6 3
min epi qui shi bic hoi
**Shift 1:** 1 2 3 4 5 6
epi shi hoi min qui bic

331. 2; Arrange them as: 5 3 1 6 4 2

**(332-336):** In each step the first word becomes the third; the third becomes the sixth; the sixth becomes the seventh; the seventh becomes the fifth; the fifth becomes the second; and the second becomes the first. The fourth word does not change its place. For convenience, write the steps numerically and solve the questions using them.
**Batch I (9 AM to 10 AM):** 1 2 3 4 5 6 7
**Batch II (10 AM to 11 AM):** 2 5 1 4 7 3 6
**Batch III (11 AM to 12 Noon):** 5 7 2 4 6 1 3
**Batch IV (12 Noon to 1 PM):** 7 6 5 4 3 2 1
**Batch V (2 PM to 3 PM):** 6 3 7 4 1 5 2
**Batch VI (3 PM to 4 PM):** 3 1 6 4 2 7 5
**Batch VII (4 PM to 5 PM):** 1 2 3 4 5 6 7
Now code for **batch VII** is exactly same as that of **Batch I**. Therefore further steps will follow the same trend.

332. 4; **12 Noon** 7 6 5 4 3 2 1
oh you are wrong do it again
**3 PM** 3 1 6 4 2 7 5
do again you wrong it oh are

333. 5; Repetition of the codes occur after six batches, ie codes for batches I and VII will be the same; codes for batches II and VIII will be the same; and so on.

334. 3; **Batch V:** 6 3 7 4 1 5 2
one done task all why he is
**Batch VII:** 1 2 3 4 5 6 7
why is done all he one task

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335. 2; **Batch II:** 2 5 1 4 7 3 6
door to window above wall of home
**Unknown Batch:** wall home to above of door window
7 6 5 4 3 2 1
From the above table it is clear that it is either batch IV or batch X. The given options do not consist of batch IV.

336. 1; **Batch VII:** go home meet your parents at once
1 2 3 4 5 6 7
**11 AM to 12 Noon:** 5 7 2 4 6 1 3
parents once home your at go meet

**(337-343):** Let us find out the logic. For the entry code for Batch B, the first four words get reversed, the fifth word remain unchanged, while the last four words also get reversed. Again, for the entry code of batch C, all the words of the entry code of batch B get reversed. Again for the entry code of batch D, the first four words of batch C get reserved, the fifth remain unchanged, while the last four words also get reversed.
As per the direction given codes of batch D on Monday and code for batch A on Tuesday are same.
Now if we mark the words in the entry code of batch A by digits 1 to 9 respectively, the digital arrangement will be as follows:
Entry Code

| Batches | Entry Code | | | | | |
|---|---|---|---|---|---|---|
| | Mon (1) | Tue (2) | Wed (3) | Thu (4) | Fri (5) | Sat (6) |
| A | 123456789 | 987654321 | 123456789 | 987654321 | 123456789 | 987654321 |
| B | 432159876 | 678951234 | 432159876 | 678951234 | 432159876 | 678951234 |
| C | 678951234 | 432159876 | 678951234 | 432159876 | 678951234 | 432159876 |
| D | 987654321 | 123456789 | 987654321 | 123456789 | 987654321 | 123456789 |

337. 2; Entry code for batch A on Monday = 123456789
Now entry code for batch B on Saturday (Jan 6) = 678951234

338. 4; See the digital arrangement given above.

339. 5; The entry code for batch B on 6th Jan 2001 will be same as the entry code for batch C on 5th Jan 2001.

340. 3 341. 1 342. 5 343. 5

**(344-349):** Here the rule followed is:
1. If password for an odd-numbered batch is
1 2 3 4 5 6 7 8 9
then the password for the next batch becomes
9 8 1 2 4 7 6 5 3
2. If password for an even-numbered batch is
1 2 3 4 5 6 7 8 9
then the password for the next batch becomes
3 6 4 1 9 8 2 7 5
For the sake of convenience we assign letters to the words used in first batch, viz. look - A, under - B, your - C, seat - D, there - E, may - F, be - G, a - H, and bomb - I.

**Chart**

| Batch I | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** |
|---|---|---|---|---|---|---|---|---|---|
| Batch II | I | H | A | B | D | G | F | E | C |
| Batch III | A | G | B | I | C | E | H | F | D |
| Batch IV | D | F | A | G | I | H | E | C | B |
| Batch V | A | H | G | D | B | C | F | E | I |
| Batch VI | I | E | A | H | D | F | C | B | G |
| Batch VII | A | F | H | I | G | B | E | C | D |
| Batch VIII | D | C | A | F | I | E | B | G | H |
| Batch IX | A | E | F | D | H | G | C | B | I |
| Batch X | I | B | A | E | D | C | G | H | F |
| Batch XI | A | C | E | I | F | H | B | G | D |
| Batch XII | D | G | A | C | I | B | H | F | E |
| Batch XIII | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** |

344. 1; Passcode for the third batch according to the chart is:
A G B I C E H F D
touch any do not objects which looks suspicious you
And passcode for the sixth batch according to the chart is: I E A H D F C B G
Hence, passcode for sixth batch will be "not which touch looks you suspicious objects do any"

345. 2; Passcode for the fifth batch according to the chart is:
A H G D B C F E I
peace mental can obtained only when you believe god
The given passcode is
peace you mental god can only believe when obtained
ie A F H I G B E C D
Now look at the chart. The above pass-code matches with the passcode of seventh batch.

**Quicker Method:** Observe the the first word of the passcodes of 1st, 3rd 5th, 7th ... batches, ie odd-numbered batches
Hence, repetition of 'peace' will happen in only those batches having batch number odd. Reject all the even-numbered choices.

346. 4; Passcode for second batch:
"Solve murder on train as four fellow passengers statements"
I H A B D G F E C
Passcode for eighth batch: D C A F I E B G H
as statements on fellow solve passengers train four murder

347. 5; See the chart. You get passcode for the first batch the same as the passcode for the thirteenth batch.

348. 3; Passcode for the
13th batch = 1st batch
⇒ 14th batch = 2nd batch
- - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
⇒ 16th batch = 4th batch

349. 1

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# # Patterns

1. Pattern Based On Shifting
2. Pattern Based On Arrangement
3. Pattern Based On Mathematical Operation
4. Miscellaneous Approach Or Other Patterns

## 1. Based On Shifting

In this pattern ,you will find the elements are shifting from one place to other.

### Important Note:

- In shifting problems, the previous step of any step can possibly be determined,so we can move in backward or reverse order which is not possible in some of the other type of problems.

### How to solve Problems Based on Shifting

Lets take an Example

**Input:** Boy Crazy Guy Other Help Charm

**Step 1.** Boy Other Guy Crazy help Charm
**Step 2.** Boy Other Help Crazy Guy Charm
**Step 3.** Charm Other Help Crazy Guy Boy
**Step 4.** Charm Crazy Help Other Guy Boy
**Step 5.** Charm Crazy Guy Other Help Boy
**Step 6.** Boy Crazy Guy Other Help Charm

Shifting of element can easily be understood by marking them equivalent to number like
Boy = 1,Crazy = 2, Guy = 3, Other = 4, Help = 4, Charm = 5.

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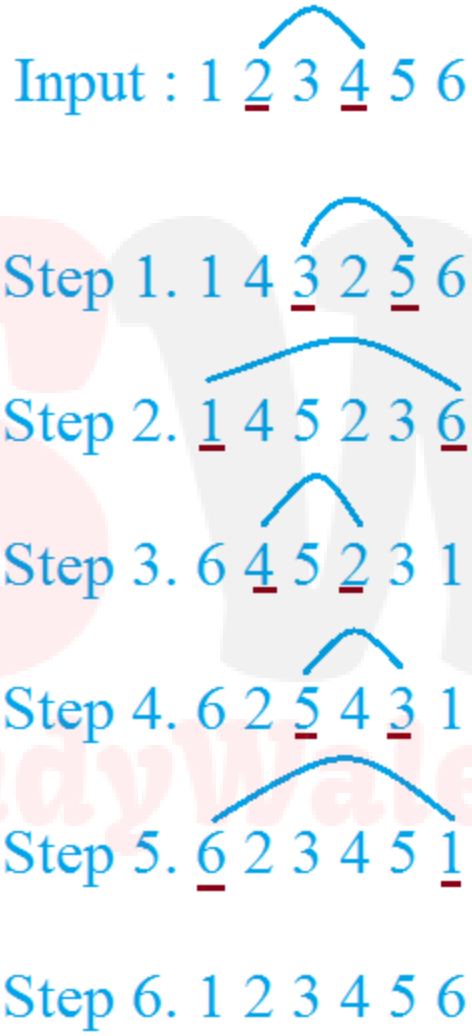
Input can be written as 1 2 3 4 5 6

Step 1, 2 and 4 interchanged
Step 2. 3 & 5 interchanged
Step 3. 1 & 6 interchanged
Step 4. Step 1, 2 & 3 are repeated again.




## 2. Based on Arrangement

### Rules :

1. Previous Step can never be determined.Let we have given Step VI & then ask to find Step V or IV or III ,so this is clear gives you the answer 'Cannot be determined'

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2. Let Total No. Of element or words or numbers in input is 8. So take n = 8 then Maximum step can be made through this input is ( n - 1).It will only happen in the case of Arrangement.
3. To find particular step ( Let x) for any input , logically pick 1st x alphabetical word or numbers in increasing order and just place them before the remaining word or numbers.This is the case Apply when given Input is an 'Increasing Order' & For Decreasing Order last x word or numbers should be picked.We will do this through example later in this article.

## Different types of Arrangements:

1. From Left
2. From Right
3. Left-Right Alternate Arrangement
4. Increasing/Decreasing Arrangement of Numbers
5. Left-Right Alternate Arrangement of Numbers
6. Arrangement of word & Number simultaneously

1. **From Left**

Input : time drive lift ever when
Step I. drive time lift ever when
Step II. drive ever time lift when
Step III. drive ever lift time when

2. **From Right**

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Input: fame tame line screw abstract
Step I. fame line screw abstract tame
Step II. fame line absract screw tame
Step III. fame abstract line screw tame
Step IV. abstract fame line screw tame

3. **Left- Right Alternate Arrangement**

Input : Ravi got the first position
Step I. first Ravi got the position
Step II. first Ravi got position the
Step III. first got Ravi position the
Step IV. first got position Ravi the

4. **Increasing/Decreasing Arrangement**

Input 82 49 53 79 13
Step I. 13 82 49 53 79
Step II. 13 49 82 53 79
Step III. 13 49 53 82 79
Step IV. 13 49 53 79 82

Increasing

Input 37 19 82 49 61
Step I. 37 19 49 61 52
Step II. 37 19 49 52 61
Step III. 19 37 49 52 61

Decreasing

5. **Left-Right Alternate Arrangement of Numbers**

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Input : 71 28 93 49 67 18
Step I. 18 71 28 93 49 67
Step II. 18 71 28 49 67 93
Step III. 18 28 71 49 67 93
Step IV. 18 28 49 67 71 93

6. **Arrangement of Word & Numbers Simultaneously**

**Case 1.**

Input : 74 draw bring 52 tall line 98 32 hit

Step I. 32 74 draw bring 52 tall line 98 hit
Step II. 32 bring 74 draw 52 tall line 98 hit
Step III. 32 bring 52 74 draw tall line 98 hit
Step IV. 32 bring 52 draw 74 tall line 98 hit
Step V. 32 bring 52 draw 74 hit tall line 98
Step VI. 32 bring 52 draw 74 hit 98 tall line
Step VI. 32 bring 52 draw 74 hit 98 line tall

**Case 2.**

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Input : 84 jar pickle 15 journey long 46 sweet 23 9

Step I. jar 84 pickle 15 journey long 46 sweet 23 9
Step II. ar 15 84 pickle journey long 46 sweet 23 9
Step III. jar 15 journey 84 pickle long 46 sweet 23 9
Step IV. jar 15 journey 23 84 pickle long 46 sweet 9
Step V. jar 15 journey 23 long 84 pickle 46 sweet 9
Step VI. jar 15 journey 23 long 46 84 pickle sweet 9
Step VII. jar 15 journey 23 long 46 pickle 84 sweet 9

**Case 3.**

Input : she 91 hit 72 slow 12
Step I. 91 she hit 72 slow 12
Step II. 91 slow she hit 72 12
Step III. 91 slow 72 she hit 12
Step IV. 91 slow 72 she 12 hit

**Case 4.**

Input : mark 21 school 89 ahead 65
Step I. school mark 21 89 ahead 65
Step II. school 89 mark 21 ahead 65
Step III. school 89 mark 65 21 ahead 65
Step IV. school 89 mark 65 ahead 21

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## Example:

**Input** vain istanbul tomorrow mind blowing gesture of the elbow

**Step 1.** blowing vain istanbul the mind gesture of elbow
**Step 2.** blowing elbow vain istanbul the mind gesture of
**Step 3.** blowing elbow gesture vain istanbul the mind of
**Step 4.** blowing elbow gesture istanbul vain the mind of
**Step 5.** blowing elbow gesture istanbul mind vain the of
**Step 6.** blowing elbow gesture istanbul mind of vain the
**Step 7.** blowing elbow gesture istanbul mind of the vain

**1. Input** ' is you are again famous on this' Find the Step 3.
a) again are famous is you on this b) on this you is famous are again c) this on you is famous areagain
d) famous this on you is are again e) None of these

**2.** If given, Step 4 'option pen rose Seema tape yolk ' , what will be the input?
a) pen option rose tape Seema yolk b) yolk Seema tape rose option pen
c) tape Seema yolk rose option pen d) Cannot be determined e) None of these

**3. Input** 'no gum to sum fame game;Find the Step 1.
a) game no gum to sum fame b) gum no to sum fame game c) game gum no to sum fame
d) Cannot be determined e) None of these

**4. Input** ' He is a great Indian cricketer'.Find out the last step for this input.
a) 7
b) 6
c) 4
d) Cannot be determined
e) None of these

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**5. Input** 'when men ten gain rain'.What would be the second step for this input?
a) gain when men ten rain b) gain men when ten rain c) rain ten men when gain
d) Cannot be determined e) None of these

**Sol:**

**1.** Applying Rule 3. Pick Alphabetically 3 words in forward order ( again, are , famous)
and place them before the remaining word that will give you :
Step 3. again are famous is you on this

**2**.Applying Rule 1. Hence Cannot be determined

**3**.Applying Rule 3. Step 1 : fame no gum to sum game Option e is correct.

**4**. Applying Rule 2. Total No of words = 6. n=6 then n-1 which is 6-1=5
Hence total No of Step can be made is 5. So Option a),b) & c) is wrong.
Now Apply Rule 3
Input : He is a great Indian cricketer.
In alphabetical order : A=1 , Cricketer =2, Great =3 , He = 4, Indian =5, Is= 6
Clearly After removing 1,2,3&6 ( four words) the remaining words come in order
So, Total Steps = 4, Total words Removed = 4 & Last Step = 4.
Step 4 : A cricketer great he indian is.

**5.** Applying Rule 3
Step need to find = 2, Total Word = 2
Input : When men ten gain rain

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Now pick the word alphabetically it will be men gain,Now placed them at front in ascending order before the other words like this : gain men and Now other words are when ten rain.

So it became Step 2: gain men when ten rain.

## 3. Based on Mathematical Operation

It will be better understood through an example

So lets take an example

**Input : 31 45 87 54 25 68**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Step 1** | 4 | 9 | 15 | 9 | 7 | 14 |
| **Step 2** | 3 | 20 | 56 | 20 | 10 | 48 |
| **Step 3** | 961 | 2025 | 7569 | 2916 | 625 | 4624 |
| **Step 4** | 29791 | 91125 | 658503 | 157464 | 15625 | 314432 |
| **Step 5** | 6.5 | 9 | 17.4 | 10.8 | 5 | 13.6 |
| **Step 6** | 4 | 9 | 6 | 9 | 7 | 5 |
| **Step 7** | 33 | 47 | 89 | 56 | 27 | 70 |
| **Step 8** | 26 | 40 | 82 | 49 | 20 | 63 |
| **Step 9** | 93 | 135 | 261 | 162 | 75 | 204 |
| **Step 10** | 8 | 18 | 30 | 18 | 14 | 28 |
| **Step 11** | 2 | 1 | 1 | 1 | 3 | 2 |
| **Step 12** | 9 | 81 | 225 | 81 | 100 | 196 |

**Step 1:** Digit sum of input.
**Step 2.** Product of the digits of input
**Step 3.** Square of the each number of the input
**Step 4.** Cube of the each number of the input
**Step 5.** Each number of the input is divided by 5
**Step 6.** Keep adding digits till they are converted into single digit
**Step 7.** Each number of the input + 2
**Step 8.** Each number of the input - 5
**Step 9.** Each number of the input * 3
**Step 10.** Digit's sum of each number of input * 2
**Step 11.** Difference between digits of each number of the input

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**Step 12.** ( Digit sum of each number of input )$^2$

## 4. Misc. Problems

There is no fixed pattern in regard of statement. Statement under this category will come before you as a real surprise.Such question are complete mind game.

| | | | | | |
|---|---|---|---|---|---|
| Input : | 78 | 239 | 154 | 126 | 654 |
| Step I. | 87 | 932 | 451 | 621 | 456 |
| Step II. | 708 | 2039 | 1054 | 1026 | 6054 |
| Step III. | 87 | 392 | 541 | 261 | 546 |
| Step IV. | 7 | 12 | 15 | 12 | 65 |
| Step V. | 780 | 2390 | 1540 | 1260 | 6540 |

**Step I.** Interchanged the first and last digit of the input.

**Step II.** Fix the zero after the first digit of the given input

**Step III.** 1st digit becomes last in two-digit numbers while middle digit becomes the 1st digit in three-digit numbers

**Step IV.** Last digit of the given input is removed

**Step V.** Just specify the zero at the end of the digit of the given input.

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**Directions (Q. 1-6): Study the following information carefully and answer the given questions. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.**

**Input:** new 11 bold 22 carve hundred 32 29 45 houses it 38
**Step I:** 11 22 new bold carve hundred 32 29 45 houses it 38
**Step II:** it new 11 22 bold carve hundred 32 29 45 houses 38
**Step III:** 29 32 it new 11 22 bold carve hundred 45 houses 38
**Step IV:** bold carve 29 32 it new 11 22 hundred 45 houses 38
**Step V:** 38 45 bold carve 29 32 it new 11 22 hundred houses
**Step VI:** houses hundred 38 45 bold carve 29 32 it new 11 22
Step VI is the last step of the above input, as the desired arrangement is obtained. As per the rules followed above find the appropriate step for the given input.

**Input: ice money 21 13 good 18 12 qualify 35 eligible 41 browse candidates 10**

**1.Which of the following represents the position of 'ice' in Step VI?**
1) Third from the left
2) Fifth from the right
3) Sixth from the right
4) Fourth from the left
5) None of these

**2. Which step will be the last but one?**
1) IX
2) VI
3) V
4) VII
5) None of these

**3. Which word/number would be at the 5th position from the right in Step V?**
1) ice
2) qualify
3) 10
4) 12
5) money

**4. How many steps will be required to complete the arrangement?**
1) VI
2) VII
3) VIII
4) X
5) IX

**5. How many elements (words or numbers) are there between '21' and '12' in Step VII?**
1) Eight
2) Five
3) Three
4) Six
5) None of these

**6. Which step number is the following output?**
**'money browse 13 18 ice good 10 12 21 qualify 35 eligible 41 candidates'**
1) III
2) VI

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3) IV
4) V
5) None of these

**Solution**

The machine arranges words and numbers in the following ma nner:
Step I. The first two numbers are arranged in ascending order from the left.
Step II . The first two words a re arranged according to the number of letters present in the word.
This process follows in each alternate step until all the numbers and words are arranged.

**Input:** ice money 21 13 good 18 12 qualify 35 eligible 41 browse candidates 10
**Step I :** 10 12 ice money 21 13 good 18 qualify 35 eligible 41 browse candidates
**Step II:** ice good 10 12 money 21 13 18 qualify 35 eligible 41 browse candidates
**Step III:** 13 18 ice good 10 12 money 21 qualify 35 eligible 41 browse candidates
**Step IV:** money browse 13 18 ice good 10 12 21 qualify 35 eligible 41 candidates
**Step V:** 21 35 money browse 13 18 ice good 10 12 qualify eligible 41 candidates
**Step VI:** qualify eligible 21 35 money browse 13 18 ice good 10 12 41 candidates
**Step VII:** 41 qualify eligible 21 35 money browse 13 18 ice good 10 12 candidates
**Step VIII:** candidates 41 qualify eligible 21 35 money browse 13 18 ice good 10 12
1=3 2=4 3=4 4=3 5=1 6=3

**Directions (Q. 1-4): Study the following information carefully and answer the given questions: (From IBPS PO/MT Exam 2012)**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers.)

**Input:** tall 48 13 rise alt 99 76 32 wise jar high 28 56 barn

**Step I:** 13 tall 48 rise 99 76 32 wise jar high 28 56 bam alt

**Step II:** 28 13 tall 48 rise 99 76 32 wise jar high 56 alt barn

**Step III:** 32 28 13 tall 48 rise 99 76 wise jar 56 alt barn high

**Step IV:** 48 32 28 13 tall rise 99 76 wise 56 alt barn high jar

**Step V:** 56 48 32 28 13 tall 99 76 wise alt barn high jar rise

**Step VI:** 76 56 48 32 28 13 99 wise alt barn high jar rise tall

**Step VII:** 99 76 56 48 32 28 13 alt barn high jar rise tall wise And Step VII is the last step of the above input, as the desired arrangement is obtained.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

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**Input:** 84 why sit 14 32 not best ink feet 51 27 vain 68 92 (All the numbers are two-digit numbers.)

**1. Which step number is the following output?**

**32 27 14 84 why sit not 51 vain 92 68 feet best ink**

1) Step V

2) Step VI

3) Step IV

4) Step III

5) There is no such step.

**2. Which word/number would be at 5th position from the right in Step V?**

1) 14

2) 92

3) feet

4) best

5) why

**3. How many elements (words or numbers) are there between 'feet' and '32' as they appear in the last step of the output?**

1) One

2) Three

3) Four

4) Five

5) Seven

**4. Which of the following represents the position of 'why' in the fourth step?**

1) Eighth from the left

2) Fifth from the right

3) Sixth from the left

4) Fifth from the left

5) Seventh from the left

**Solutions (For Qns 1-4):**

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The machine rearranges words and numbers in the following way. Numbers are being arranged from left side with the smallest number coming first and move subsequently so that in the last step numbers are arranged in descending order. The words are arranged from right side as they appear in English alphabetical order.

**Input:** 84 why sit 14 32 not best ink feet 51 27 vain 68 92

**Step I:** 14 84 why sit 32 not ink feet 51 27 vain 68 92 best

**Step II:** 27 14 84 why sit 32 not ink 51 vain 68 92 best feet

**Step III:** 32 27 14 84 why sit not 51 vain 68 92 best feet ink

**Step IV:** 51 32 27 14 84 why sit vain 6892 best feet ink not

**Step V:** 68 51 32 27 14 84 why vain 92 best feet ink not sit

**Step VI:** 84 68 51 32 27 14 why 92 best feet ink not sit vain

**Step VII:** 92 68 84 51 32 27 14 best feet ink not sit vain why

**On the basis of above Output, The answers are :**

**Ans 1.** 5

**Ans 2.** 4

**Ans 3.** 2; 27, 14 and best

**Ans 4.** 3; Step IV: 51 32 27 14 84 why sit vain 68 92 best feet ink not

The position of 'why' in this step is sixth from the left end.

Study the following information to answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearrange them following a particular rule. The following is an illustration of input and rearrangement. (Single digit numbers are preceded by a zero. All other numbers are two digit numbers )

**Input** : whether 15 wish you 08 being 48 come 68 hour 124 86
**Step I. :** being whether 15 wish you 08 48 come 68 hour 124 86
**Step II.** being 08 whether 15 wish you 48 come 68 hour 124 86
**Step III.** being 08 come whether 15 wish you 48 68 hour 124 86

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**Step IV.** being 08 come 15 whether wish you 48 68 hour 124 86
**Step V.** being 08 come 15 hour whether wish you 48 68 124 86
**Step VI.** being 08 come 15 hour 48 whether wish you 68 124 86
**Ste VII.** being 08 come 15 hour 48 whether 68 wish you 124 86
**Step VIII.** being 08 come 15 hour 48 whether 68 wish 86 you 124

Step VIII is the last step of the arrangement of the above input as the intended arrangement is obtained.As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

**Direction ( Q 1- 4)**
**Input :** new 59 personnel 68 28 teacher 10 price grievance 32

**Q1)** How many steps would be needed to complete the arrangement?
a) V
b) VI
c) VIII
d) VII
e) Cannot be Determined

**Q2)** Which of the following would be the final arrangement?

a) grievance 10 new 28 personnel 32 price 59 68 teacher
b) grievance new personnel price teacher 10 28 32 59 68
c) grievance 10 new 28 personnel 32 price 59 teacher 68
d) grievance 68 new 59 price 32 personnel 28 new 10
e) None of these

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**Q3)** Which of the following would be step I?

a) grievance new 59 68 personnel 28 teacher 10 price 32
b)10 grievance new 59 personnel 68 28 teacher price 32
c) grievance 10 new 59 personnel 68 28 teacher price 32
d) 10 grievance new 59 personnel 68 28 teacher price 32
e) grievance new 59 personnel 68 28 teacher 10 price 32

**Q4)** Which word/number would be the sixth position from the left end in step III ?
a) personnel
b) price
c) 68
d) 32
e) teacher

**Direction ( Q 5 - 7)**
**Input :** jam 14 aim virtue 22 trouble 5 15
**Q5)** Which word/number would be at position 5 from the right end in step III ?
a) aim
b) 15
c) jam
d) 14
e) trouble

**Q6)** Which of the following is the step III?

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a) aim jam virtue 14 22 trouble 5 15
b) aim 5 jam 14 trouble virtue 22 15
c) aim 5 jam 14 trouble 15 22 virtue
d) aim jam virtue trouble 14 22 3 115
e) None of these

**Q7)** How many steps would be needed to complete the arrangement and which would be the last step?
a) Step IV
b) Step V
c) Step V
d) Step VI
e) None of the above

**Direction (8-11)**
**Input:** apple 11 apparatus 25 23 apology 29 approximately

**Q8)** What would be the Step II?

a) apology 11 apple apparatus 23 25  29 approximately
b) apology 11 apple 25 23 29 apparatus approximately
c) 11 apology apple apparatus 23 apple 25 29 approximately
d) apology 11 apple apparatus25 23 29  approximately
e) None of these

**Q9)** What would be the last step ?

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a)VI

b) VIII

c) VII

d) V

e) None of the above

**Q10)** What would be the Step IV?

a) apology 11 apparatus 23 apple 29 25 approximately

b) apology 11 apparatus 23 29 apple 25 approximately

c) apology 11 apparatus 23 apple 25 29 approximately

d) 11 apology apparatus 23 apple 25 29 approximately

e) None of the above

**Input :** 10 Amul 21 Amazon 01 amateur 42 Anguish 32 Angle

**Q 11)** Find Step 4?

a) amateur 01 Amazon 10 Amul 21 anguish 42 32 Angle

b) amateur 01 Amazon 10 Amul 42 Anguish 32 Angle

c) 01 amateur Amazon 10 Amul 21 42 Anguish 32 Angle

d) amateur 01 Amazon 10 Amul 21 angle 42 Anguish 32

e) None of these

**Q12)** Find the last Step?

a) VIII

b) VI

c)VII

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d)Cannot be determined

e) None of these

ANSWERS = DCEADBADDCDB

Directions (Q. 1-5): A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the Input and the steps of arrangement:

Input: man's mood varies with time and environment

Step I: varies with man's mood environment and time

Step II: and time environment mood man's varies with

Step III: environment time and varies with mood man's

Step-IV: and varies environment time man's mood with

And so on for subsequent steps. You have to find out the logic and answer the questions given below.

**1. If Step V reads "bees are king juice from colourful flowers", what would Step III read?**

(1) sucking are bees colourful flowers juice from

(2) colourful juice from bees sucking flowers are

(3) colourful flowers from Juice sucking bees are

(4) from juice colourful flowers are bees sucking

(5) None of these

**2. If Step III reads "old streets of Calcutta attract me lots", what would be the arrangement for Step VII?**

(1) me of old attract lots streets Calcutta

(2) lots attract me of Calcutta streets old

(3) streets old Calcutta of me lots attract

(4) Calcutta of streets old attract lots me

(5) None of these

**3. If Step IV reads "everyone were aware about their intimate friendship", what will be the middle three words of Step II?**

(1) their intimate aware

(2) aware intimate their

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(3) everyone were friendship

(4) aware were intimate

(5) None of these

**4. If the given input is "he has learnt a lot from Krishna", what will be Step VI?**

(1) he a has from learnt lot Krishna

(2) has from he a Krishna lot learnt

(3) lot learnt Krishna a he has from

(4) Krishna a lot learnt from has he

(5) None of these

**5. Input: he is member of the dancing club. For the above input, which step will be the following arrangement? Arrangement: is of he the club dancing member.**

(1) Step IV

(2) Step V

(3) Step VI

(4) Step III

(5) None of these

ANSWERS = 45215

## Questions 2 - 5: Read the instruction given below and solve the questions based on it.

An electronic device when fed with the numbers, rearranges them in a particular order following certain rules. The following is a step-by-step process of rearrangement for the given input of numbers

**Input** : 85, 16,36,04,19,97,63,09
Step I : 97, 85,16,36,04,19,63,09
Step II : 97,85,63,16,36,04,19,09
Step III : 97,85,63,36,16,04,19,09
Step IV : 97,85,63,36,19,16,04,09
Step V : 97,85,63,36,19,16,09,04

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(For the given input, step V is the last step). Now study the logic and rules followed in the above steps and find out appropriate step for the question given below for the given input.

**Explanation:**
There are two things that can be observed:
(a) Step V is the last step – it indicates that there is some reasoning used to formulate the steps,
(b) Last step has the elements that are arranged perfectly in descending order.

***Ques 2. Which of the following will be step v for the given input?***
**Input:** 25,08,35,11,88,67,23
(a) 88,67,35,11,88,67,23
(b) 88,67,35,25,08,11,23
(c) 88,11,23,25,35,67,23
(d) 88, 67, 35, 25, 23, 08, 11
***Solution:-*** We are going to arrange the numbers in descending order taking numbers one by one.
Step 1 = 88, 25,08,35,11, 67, 23
Step 2 = 88, 67, 25, 08, 35, 11, 23
Step 3 = 88, 67, 35, 25, 08, 11, 23
Step 4 = 88, 67, 35, 25, 23, 08, 11
Hence option (d) is the answer.

***Ques 3. Which of the following will be step III for given input?***
**Input :** 09, 25, 16, 30, 32, 18, 17, 06
(a) 32, 09, 25, 16, 30, 18, 17, 06
(b) 32, 30, 09, 25, 16, 18, 17, 06
(c) 32, 30, 25, 09, 16, 18, 17, 06
(d) 32, 25, 09, 16, 30, 18, 17, 06

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***Solution:-*** We are going to arrange the numbers in descending order taking numbers one by one.
Step 1 = 32, 09, 25, 16, 30, 18, 17, 06
Step 2 = 32, 30, 09, 25, 16, 18, 17, 06
Step 3 = 32, 30, 25, 09, 16, 18, 17, 06
Hence option (C) is the answer.

***Ques 4. Which of the following will be the last step for the given input?***
**Input :** 16,09,25,27,06,05
(a) Step 1
(b) Step 2
(c) Step 3
(d) Step 4
***Solution:-*** We are going to arrange the numbers in descending order taking numbers one by one.
Step 1 = 27, 16, 09, 25, 06, 05
Step 2 = 27, 25, 16, 09, 06, 05
Step 2 gives all the elements arranged in the descending order. Hence this is the last step. Hence option (b) is the answer.

***Ques 5. If step IV is as given, then which of the following was the input?***
**Step IV:** 92, 86,71,69,15, 19,06, 63,58
(a) 86, 92, 69, 71, 15, 19, 06, 63, 58
(b) 15, 86, 19, 92, 06, 69, 63, 58, 71
(c) 15, 19, 06, 63, 58, 86, 92, 69, 71
(d) Cannot be determined
**Solution –** We cannot go back to previous step or to the input as we do not know which element came from which place. Hence option (d) cannot be determined is the answer.

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**Questions 6 to 10: Read the instruction given below and solve the questions based on it.**

A word arrangement machine, when given an input line of words, rearrange them following a particular rule. Following presents the input and steps generated as per this rule:

**Input: Go for to though by easy to access at**

Step I : Access go for to though by easy to at
Step II: Access at go for to though by easy to
Step III: Access at by go for to though easy to
Step IV: Access at by go for to though easy to
Step V: Access at by easy for go to though to
Step VI: Access at by easy for go to though to
Step VI: Access at by easy for go though to to
Step VII: Access at by easy for go though to to

(Step VII is the last step for this input.) As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

**Explanation:**

A quick glance at the last step gives us an idea that words have been arranged alphabetically 1st and if the 1st letter is same, then 2nd letter decides the order of occurrence. This sequencing is also knows as sequencing based upon dictionary usage.

***Ques 6. Input: Story for around on was he at". Which of the following will be Step IV for the given input?***

(a) Around at for he on was story
(b) Around at for he on story was
(c) Around at for he story on was
(d) Around at he for story on was

***Solution:***

Step 1 = Around Story for on was he at

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Step 2 = Around at Story for on was he
Step 3 = Around at for Story on was he
Step 4 = Around at for he Story on was
Hence option (c) is the answer.

***Ques 7. Input: "Every ant peer to an for". Which of the following steps would the last step for this input?***

(a) II
(b) III
(c) IV
(d)V

***Solution:***

Step 1 = an every ant peer to for
Step 2 = an ant every peer to for
Step 3 = an ant every for peer to
This is the last step for this input as all the words are alphabetically arranged now. Hence option (b) is the answer.

***Ques 8. Step II of an input is as follows: "Do and pet to on that". Which of the following would definitely be the input?***

(a) Do on pet to and that
(b) Do pet to and that on
(c) Do and pet to on that
(d) Cannot be determined

***Solution*** – We cannot go back to input from any step in any question set that is based upon some reasoning. Hence answer is option (d) cannot be determined.

**Directions (1-5):** Read the following information and answer the questions.The following is an illustration of input and rearrangement

**Input : ant real order world sunk india man undo catch eat**

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Step I : undo ant real order world sunk india man eat catch
Step II : undo order ant real world sunk india eat man catch
Step III : undo order india ant world sunk eat real man catch
Step IV : undo order india eat ant world sunk real man catch

And step **IV** is the last step of the rearrangement As per the rules followed in the above steps, find out in each of the following question the appropriate steps for the given input.
Input for the question

**Input : horn simple anger best onto danger moon upto erase into**

**1.** Which of the following would be the **final** arrangement?
(1) best horn danger moon simple upto onto into erase anger
(2) upto onto into erase anger best danger horn moon simple
(3) upto onto into erase anger simple moon horn danger best
(4) upto onto into erase anger simple danger horn moon best
(5) None of these

**2.** In step III, which of the following word be at **6th** position from the left?
(1) moon (2) anger
(3) simple (4) horn
(5) None of these

**3.** Which step number would be the following output?
upto onto horn simple anger moon erase into danger best.
(1) II (2) III
(3) V (4) IV
(5) None of these

**4.** In step IV of the rearrangement, if onto is related to erase and moon is related to danger in a certain way, to which of the following would anger be related to, following the same pattern?
(1) moon (2) into
(3) simple (4) horn
(5) None of these

**5.** Which of the following would be step VII?
(1) upto onto into erase anger simple moon horn danger best
(2) upto onto into erase anger moon simple danger horn best
(3) upto onto into erase anger best danger horn moon simple
(4) upto onto into erase simple anger moon horn danger best
(5) There will be no such step as the input gets rearranged before step VII

**Directions (6-10).** Study the following information carefully and answer the given questions: The following is an illustration of input and rearrangement.
**(All the numbers are two digits numbers)**

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**Input : talk 61 26 mold boom 88 81 47 work known ink 36 69 cold**
**Step I :** 26 talk 61 mold 88 81 47 work known ink 36 69 cold boom
**Step II :** 36 26 talk 61 mold 88 81 47 work known ink 69 boom cold
**Step III :** 47 36 26 talk 61 mold 88 81 work known 69 boom cold ink
**Step IV :** 61 47 36 26 talk mold 88 81 work 69 boom cold ink known
**Step V :** 69 61 47 36 26 talk 88 81 work boom cold ink known mold
**Step VI :** 81 69 61 47 36 26 88 work boom cold ink known mold talk
**Step VII :** 88 81 69 61 47 36 26 boom cold ink known mold talk work

Step **VII** is the last slep of the above input, as the desired arrangement is obtained.

**Input: 89 who root 19 46 near drink link gold 61 23 under 71 97**

**6.** Which step number is the following output?
46 23 19 89 who root near 61 under 97 71 gold drink link
(1) Step V (2) Step VI
(3) Step IV (4) Step III
(5) There is no such step

**7.** Which word/number would be at **5th** position from the right in Step V ?
(1) 19 (2) 97
(3) gold (4) drink
(5) who

**8.** How many elements (words or numbers) are there between **'gold' and '46'** as they appear in the last step of the output?
(1) One (2) Three
(3) Four (4) Five
(5) Seven

**9.** Which of the following represents the position of '**who**' in the **fourth** step?
(1) Eighth from the left (2) Fifth from the right
(3) Sixth from the left (4) Fifth from the left
(5) Seventh from the left

**10.** Which of the following would be step **IV**?
(1) 19 89 who root 46 near link gold 61 23 under 71 97 drink
(2) 71 61 46 23 19 89 who under 97 drink gold link near root
(3) 61 46 23 19 89 who root under 71 97 drink gold link near
(4) 97 89 71 61 46 23 19 drink gold link near root under who
(5) None of these

**Solutions (1-5):**

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Words that start with vowel are arranged in decreasing alphabetical order on the left and the words that start with consonant are arranged on the right.

**Input : horn simple anger best onto danger moon upto erase into**

Step I : upto horn simple anger onto danger moon erase into best
Step II : upto onto horn simple anger moon erase into danger best
Step III : upto onto into simple anger moon erase horn danger best
Step IV : upto onto into erase anger simple moon horn danger best

**1.** (3) **2.** (1) **3**. (1) **4.** (1) **5.** (5)

**Solutions (6-10):**
**Input : 89 who root 19 46 near drink link gold 61 23 under 71 97**

Step I : 19 89 who root 46 near link gold 61 23 under 71 97 drink
Step II : 23 19 89 who root 46 near link 61 under 71 97 drink gold
Step III : 46 23 19 89 who root near 61 under 71 97 drink gold link
Step IV : 61 46 23 19 89 who root under 71 97 drink gold link near
Step V : 71 61 46 23 19 89 who under 97 drink gold link near root
Step VI : 89 71 61 46 23 19 who 97 drink gold link near root under
Step VII : 97 89 71 61 46 23 19 drink gold link near root under who

**6. (5) 7. (4) 8. (2) 9. (3) 10. (3)**

Directions (Q. 1-5): Study the given information and answer the following questions:
When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers.)
Input: 40 made butter 32 37 cookies salt extra 52 86 92 fell now 19
Step I: butter 19 40 made 23 37 cookies salt extra 52 86 92 fell now
Step II: cookies 23 butter 19 40 made 37 salt extra 52 86 92 fell now
Step III: extra 37 cookies 23 butter 19 40 made salt 52 86 92 fell now
Step IV: fell 40 extra 37 cookies 23 butter 19 made salt 52 86 92 now
Step V: made 52 fell 40 extra 37 cookies 23 butter 19 salt 86 92 now
Step VI: now 86 made 52 fell 40 extra 37 cookies 23 butter 19 salt 92
Step VII: salt 92 now 86 made 52 fell 40 extra 37 cookies 23 butter 19

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Step VII is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

**Input: 32 proud girl beautiful 48 55 97 rich family 61 72 17 nice life**

**1).** How many steps will be required to complete the given input?

a) Five
b) Six
c) Seven
d) Eight
e) Nine

**2).** Which of the following is the third element from the left end of step VI?

a) Beautiful
b) Life
c) 61
d) Nice
e) 17

**3).** Which of the following is step III of the given input?

a) Proud 72 girl 48 family 32 beautiful 17 55 97 rich 61 nice life
b) Life 55 girl 48 family 32 beautiful 17 proud 97 rich 61 72 nice
c) Girl 48 family 32 beautiful 17 proud 55 97 rich 61 72 nice life
d) Family 32 beautiful 17 proud girl 48 55 97 rich 61 72 nice life
e) Girl 48 life 55 family 32 beautiful 17 proud 97 rich 61 72 nice

**4).** What is the position of 'nice' from the left end in the final step?

a) Fifth
b) Sixth
c) Seventh
d) Eighth

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e) Ninth

5). Which element is third to the right of 'family' in Step V?

a) Beautiful
b) 17
c) Proud
d) 97
e) 32

**Directions (Q. 6-8): Study the given information and answer the following questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers and are rearranged as per some logic based on the value of the number.)

**Input:** win 56 32 93 bat for 46 him 28 11 give chance
**Step I:** 93 56 32 bat for 46 him 28 11 give chance win
**Step II:** 11 93 56 32 bat for 46 28 give chance win him
**Step III:** 56 11 93 32 bat for 46 28 chance win him give
**Step IV:** 28 56 11 93 32 bat 46 chance win him give for
**Step V:** 46 28 56 11 93 32 bat win him give for chance
**Step VI:** 32 46 28 56 11 93 win him give for chance bat

Step VI is the last step of the arrangement of the above input.
As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.
Input for the questions:
**Input: fun 89 at the 28 16 base camp 35 53 here 68**
(All the numbers given in the arrangement are two- digit numbers)

6). Which of the following would be step II?

a) 89 fun at 28 16 base camp 35 53 here 68 the

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b) 35 53 28 68 16 89 the here fun camp base at
c) 16 89 at fun 28 camp base 35 53 68 the here
d) 53 28 68 16 89 35 the here fun camp base at
e) None of these

**7).** Which word/number would be at seventh position from the left in step IV?

a) Base
b) At
c) 35
d) The
e) 53

**8).** Which step number would be the following output?

53 28 68 16 89 at 35 the here fun camp base

a) There will be no such step
b) III
c) II
d) V
e) IV

**Answers:**

**1). c) 2). d) 3). c) 4). a) 5). b) 6). e) 7). c) 8). d)**

**Explanation:**

**Direction (Q. 1-5)**

**From Input to Step I.** The world that comes first in alphabetical order goes to the first position. The smallest number goes to the second position. The rest of the line shifts rightward.

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**From Step I to Step II.** The word that comes second in alphabetical order goes to the first position. The second smallest number goes to the second position. The rest of the line shifts rightward.

This goes on until in the last step all the words are arranged in reverse alphabetical order and the numbers are arranged in descending order from left to right.

**Input:** 32 proud girl beautiful 48 55 97 rich family 61 72 17 nice life.

**Step I:** beautiful 17 32 proud girl 48 55 97 rich family 61 72 nice life

**Step II:** family 32 beautiful 17 proud girl 48 55 97 rich 61 72 nice life

**Step III:** girl 48 family 32 beautiful 17 proud 55 97 rich 61 72 nice life

**Step IV:** life 55 girl 48 family 32 beautiful 17 proud 97 rich 61 72 nice

**Step V:** nice 61 life 55 girl 48 family 32 beautiful 17 proud 97 rich 72

**Step VI:** proud 72 nice 61 life 55 girl 48 family 32 beautiful 17 97 rich

**Step VII:** rich 97 proud 72 nice 61 life 55 girl 48 family 32 beautiful 17

1).

**Answer: c)**

2).

**Answer: d)**

3).

**Answer: c)**

4).

**Answer: a)**

5).

**Answer: b)**

**Direction (Q. 6-8)**

The word and number arrangement machine rearranges the input with the logic that in step I, it shifts the largest number to the left-most place and the last word coming in English alphabetical series to the rightmost place. In step II, it shifts the smallest number to the leftmost place and the next word (in reverse alphabetical order) to the rightmost. In step III 2$^{nd}$ largest number is shifted to the leftmost place and so on.

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**Input:** fun 89 at the 28 16 base camp 35 53 here 68

**Step I:** 89 fun at 28 16 base camp 35 53 here 68 the

**Step II:** 16 89 fun at 28 base camp 35 53 68 the here

**Step III:** 68 16 89 at 28 base camp 35 53 the here fun

**Step IV:** 28 68 16 89 at base 35 53 the here fun camp

**Step V:** 53 28 68 16 89 at 35 the here fun camp base

**Step VI:** 35 53 28 68 16 89 the here fun camp base at

6).

**Answer: e)**

7).

**Answer: c)**

8).

**Answer: d)**

**Directions (Q. No:1-5)** A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps f arrangement.

**Input** vani is the most beautiful girl on earth

**Step I** beautiful vani is the most girl on earth

**Step II** beautiful earth vani is the most girl on

**Step III** beautiful earth girl vani is the most on

**Step IV** beautiful earth girl is vani the most on

**Step V** beautiful earth girl is most vani the on

**Step VI** beautiful earth girl is most on vani the

**Step VII** beautiful earth girl is most on the vani

Since the words already arranged, the machine stops after this step. Otherwise the machine may carry on its logic until the words get fully arranged. Study the logic and answer the questions that follow

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1). **Input** 'is you are again famous on this'. Find the Step III.

a) Again are famous is you on this
b) On this you is famous are again
c) This on you is famous are again
d) Famous this on you is are again
e) None of these

2). If given, Step IV 'option pen rose Seema tape yolk', what will be the input ?

a) Pen option rose tape Seema yolk
b) Yolk Seema tape rose option pen
c) Tape Seema yolk rose option pen
d) Cannot be determined
e) None of these

3). **Input** 'no gum to sum fame game'. Find the Step I.

a) Game no gum to sum fame
b) Gum no to sum fame game
c) Game gum no to sum fame
d) Cannot be determined
e) None of these

4). **Input** 'He is a great Indian cricketer'. Find out the last step for this input.

a) VII
b) VI
c) IV
d) Cannot be determined
e) None of these

5). **Input** 'when men ten gain rain'. What would be the second step for this input?

a) Gain when men ten rain
b) Gain men when ten rain

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c) Rain ten men when gain
d) Cannot be determined
e) None of these

**Directions (Q. No 6-10)** Study the following information carefully and answer the given question. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input** 'gone 93 over 46 84 now for 31'

**Step I** 31 gone 93 over 46 84 now for

**Step II** 31 over gone 93 46 84 now for

**Step III** 31 over 46 gone 93 84 now for

**Step IV** 31 over 46 now gone 93 84 for

**Step V** 31 over 46 now 84 gone 93 for

And Step V is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**6). Step III** of an input 15 window 29 93 86 sail tower buy which of the following will be Step VI?

a) 15 window 29 tower 86 sail 93 buy
b) 15 window 29 tower 86 93 sail buy
c) 15 window 29 tower 93 86 sail buy
d) There will be no such step
e) None of these

**7). Input** 'station hurry 39 67 all men 86 59'

How many steps will be required to complete the rearrangement?

a) Four
b) Five

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c) Six
d) Three
e) None of these

8). Step II of an input is 49 zone car battery 56 87 71 down which of the following is definitely the input?

a) Car 49 battery zone 56 87 71 down
b) Zone 49 car battery 56 87 71 down
c) Battery car 49 zone 56 87 71 down
d) Cannot be determined
e) None of these

9). Input 'news 79 53 glory for 46 29 task' which of the following will be step IV ?

a) 29 task 46 news 53 glory 79 for
b) 29 task 46 news 53 79 glory for
c) 29 task 46 news 79 53 glory for
d) 29 news 79 53 glory for 46 task
e) None of these

10). Step III of an input is 27 tube 34 gas chamber row 74 53 which of the following steps will be the last but one?

a) VI
b) VII
c) VIII
d) V
e) None of these

11). Step II of an input is 19 years 85 74 near gone 26 store how many more steps will be required to complete the rearrangement?

a) Three
b) Four

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c) Two

d) Five

e) None of these

Answers:

1). a) 2). d) 3). e) 4). c) 5). b) 6). a) 7). b) 8). d) 9). b) 10). d) 11). b)

Solutions:

Direction (Q. No 1-5) In this problem we notice

(i) it is a forward order alphabetical arrangement.

(ii) arrangement takes place from left side only.

1). Input 'is you are again famous on this'

Step I again is you are famous on this

Step II again are is you famous on this

Step III again are famous is you n this

Answer : (a)

2). Option (d) is the correct answer as in the arrangement problem previous steps cannot be determined. (see Rule B)

Answer : d)

3). Input no gum to sum fame game

Step I fame no gum to sum game

Answer : e)

4). Input he is a great Indian cricketer

Step I a He is great Indian cricketer

Step II a cricketer he is great Indian

Step III a cricketer great he is Indian

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**Step IV** a cricketer great he Indian is

**Answer : c)**

**5). Input** when men ten gain rain

**Step I** gain when men ten rain

**Step II** gain men when ten rain

**Answer : b)**

**Directions (Q. No 6-11)**

In the 1st step, the smallest number comes at the first position from left pushing the rest of the line rightward; in Step II, the word coming last in the alphabetical order comes at the 2nd position from left pushing the rest of the line rightward; in step III, the 2nd smallest number comes at the third place from left pushing rest of the line rightward; in Step IV, the word coming 2nd last in alphabetical order comes at the fourth position from left pushing the remaining line rightward. Thus, number and words get arranged alternately till the numbers are in ascending order and the words are in reverse alphabetical order.

**6). Step III** 15 windows 29 93 86 sail tower buy

**Step IV** 15 window 29 tower 93 86 sail buy

**Step V** 15 window 29 tower 86 93 sail buy

**Step VI** 15 window 29 tower 86 sail 93 buy

**Answer : a)**

**7). Input** station hurry 39 67 all men 86 59

**Step I** 39 station hurry 67 all men 86 59

**Step II** 39 station 59 hurry 67 all men 86

**Step III** 39 station 59 men hurry 67 all 86

**Step IV** 39 station 59 men 67 hurry all 86

**Step V** 39 station 59 men 67 hurry 86 all

As last step = Step V

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:. Total steps =Five

**Answer : b)**

**8).** In arrangement problem, previous steps cannot be determined.

**Answer : d)**

**9). Input** news 79 53 glory for 46 29 task

**Step I** 29 news 79 53 glory for 46 task

**Step II** 29 task news 79 53 glory for 46

**Step III** 29 task 46 news 79 53 glory for

**Step IV** 29 task 46 news 53 79 glory for

**Answer : b)**

**10). Step III** 27 tube 34 gas chamber row 74 53

**Step IV** 27 tube 34 row gas chamber 74 53

**Step V** 27 tube 34 row 53 gas chamber 74

**Step VI** 27 tube 34 row 53 gas 74 chamber

As last step = Step VI

:. Last but one step = step V

**Answer: d)**

**11). Step II** 19 years 85 74 near gone 26 store

**Step III** 19 years 26 85 74 near gone store

**Step IV** 19 years 16 store 85 74 near gone

**Step V** 19 years 26 store 74 85 near gone

**Step VI** 19 years 26 store 74 near 85 gone

As total steps = 6, :. Required answer = Four

**Answer : b)**

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**Directions (Example Nos. 1-5):** Study the following information carefully and answer the given questions. A number arrangement machine, when given as input line of number rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangements.

| | | | | | | |
|---|---|---|---|---|---|---|
| Input | 25 | 22 | 15 | 36 | 29 | 99 |
| Step I | 7 | 4 | 6 | 9 | 11 | 18 |
| Step II | 10 | 4 | 5 | 18 | 18 | 81 |
| Step III | 625 | 484 | 225 | 1296 | 841 | 9801 |
| Step IV | 15625 | 10648 | 3375 | 46656 | 24389 | 970299 |
| Step V | 5 | 4.4 | 3 | 7.2 | 9.76 | 19.8 |
| Step VI | 7 | 4 | 6 | 9 | 2 | 9 |
| Step VII | 27 | 24 | 17 | 38 | 31 | 101 |
| Step VIII | 20 | 17 | 10 | 31 | 24 | 94 |
| Step IX | 75 | 66 | 45 | 108 | 87 | 297 |
| Step X | 14 | 8 | 12 | 18 | 22 | 36 |
| Step XI | 3 | 0 | 4 | 3 | 7 | 0 |
| Step XII | -3 | 0 | -4 | -3 | -7 | 0 |
| Step XIII | 49 | 16 | 36 | 81 | 121 | 324 |

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**1).** If input is 11, 15, 19, 12, 14, then find the Step XIII for this input.

a) 36, 4, 100, 9, 25

b) 4, 36, 100, 9, 25

c) 2, 6, 10, 3, 5

d) Cannot be determined

e) None of these

**2).** If Step I of a given input is as follows '7, 9, 6, 15, 16, 18', then find the input.

a) 25, 63, 42, 96, 88, 99

b) 52, 36, 24, 69, 88, 99

c) 25, 36, 24, 96, 88, 99

d) Cannot be determined

e) None of these

**3).** If Step V is '6, 9, 12, 75, 8', then find the input.

a) 30, 45, 60, 375, 40

b) 24, 54, 26, 78, 56

c) 40, 375, 60, 45, 30

d) 10, 13, 16, 79, 12

e) None of these

**4).** If input is '35, 95, 43, 45, 98, 81', then find Step XII.

a) -2, 4, -1, 1,-1, 7

b) -2, 4, 1, -1, 1, 7

c) 2, 6, 5, 4, 3, 2

d) Cannot be determined

e) None of these

**5).** If input is '78, 12, 27, 16, 87, 45', then find the Step II.

a) 56, 2, 14, 6, 56, 20

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b) 15, 3, 9, 7, 15, 9
c) 76, 9, 25, 14, 85, 43
d) Cannot be determined
e) None of these

**Direction (Questions 06 to 10):** Read the following information carefully and answer the questions given below. A famous museum issues entry passes to all its visitors for security reasons. Visitors are allowed in batches after every one hour. In a day there are six batches. A code is printed on entry pass which keeps on changing for every batch. Following is an illustration of passcodes issued for each batch.

**Batch I:** houses neat and clean liked are all by
**Batch II:** by houses neat all are and clean liked
**Batch III:** liked by houses clean and neat all are and so on

**6).** If passcode for the third batch is 'you succeed day and hard work to for', then what will be the passcode for the sixth batch?

a) Work hard to for succeed you and day
b) Hard work for and succeed you to day
c) Work hard for to succeed you and day
d) Hard work for to succeed you and day
e) None of the above

**7).** If 'visit in 15 should the we time 40' is the passcode for the fifth batch, '15 we the should visit 40 time in' will be the passcode for which of the following batches?

a) II
b) IV
c) I
d) III
e) VI

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8). Naman visited the museum in the fourth batch and was issued a passcode 'to one rush avoid not do very run'. What would have been the passcode for him had he visited the museum in the second batch?

a) Rush do not avoid to run very one
b) Rush not do avoid to run very one
c) Avoid rush not do to run very one
d) Data inadequate
e) None of the above

9). Kamal went to visit the museum in the second batch. He was issued a passcode 'length the day equal of an night are'. However, he could not visit the museum in the second batch as he was a little late. He, then preferred to visit in the fourth batch. What will be the new passcode issued to him?

a) And of are night the length equal day
b) And are of night the length equal day
c) And of are night the equal day length
d) And of are the night length day equal
e) None of these

10). If passcode for the second batch is 'to come hard you did work and success', then what will be the passcode for the fourth batch?

a) Did success to you hard come and work
b) Did success you to hard come and work
c) Did success to you hard come work and
d) Did to success you hard come and work
e) None of these

11). If the passcode issued for the last (sixth) batch is the pencil by all boys used are pen', then what will be the passcode for the first batch?

a) Pencil the pen are used by all boys

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b) Pen the pencil used are by all boys

c) Pen the pencil are used by all boys

d) Pencil the pen are used all by boys

e) None of the above

**Answers:**

**1). b) 2). d) 3). a) 4). b) 5). a) 6). c) 7). d) 8). a) 9). e) 10). a) 11). c)**

**Detailed Solutions:**

**(Q. Nos. 1-5)**

Logic

| | |
|---|---|
| Step I | Digit-sum of input |
| Step II | Product of the digits of input |
| Step III | Square of the each number of the input |
| Step IV | Cube of the each number of the input |
| Step V | Each number of the input is divided by 5 |
| Step VI | Keep adding digits till they are converted into single digit |
| Step VII | Each number of the input +2 |
| Step VIII | Each number of the input -5 |
| Step IX | Each number of the input ×3 |
| Step X | Digit sum of each number of input ×2 |
| Step XI | Difference between digits of each number of input |
| Step XII | (1st digit- 2nd digit) of each number of input |
| Step XIII | (Digit sum of each number of input)$^2$ |

1). (Digits sum of each number of input)$^2$

**Answer is:** b)

2). As it is very obvious.

**Answer is:** d)

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3). :. Step V= Each number of the input/5

:. Each number of the input=(Step V)× 5

**Answer is:** a)

4). (1st digit-2nd digit) of each number of the input.

**Answer is:** b)

5). Product of digits of each number of the input.

The above example gives you an idea about the type of mathematical/arithmetical operations that can take place in such problems.

**Answer is:** a)

**Solutions (Q.Nos. 6-11):**

Let reference chart be

Houses=1 neat=2 and=3 clean=4 liked=5 are=6 all=7 by=8

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Batch I | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Batch II | 8 | 1 | 2 | 7 | 6 | 3 | 4 | 5 |
| Batch III | 5 | 8 | 1 | 4 | 3 | 2 | 7 | 6 |
| Batch IV | 6 | 5 | 8 | 7 | 2 | 1 | 4 | 3 |
| Batch V | 3 | 6 | 5 | 4 | 1 | 8 | 7 | 2 |
| Batch VI | 2 | 3 | 6 | 7 | 8 | 5 | 4 | 1 |

6).

Given, **Batch III**

| you | succeed | day | and | hard | work | to | for |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 5 | 8 | 1 | 4 | 3 | 2 | 7 | 6 |

∴ **Batch VI**

| 2 | 3 | 6 | 7 | 8 | 5 | 4 | 1 |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| work | hard | for | to | succeed | you | and | day |

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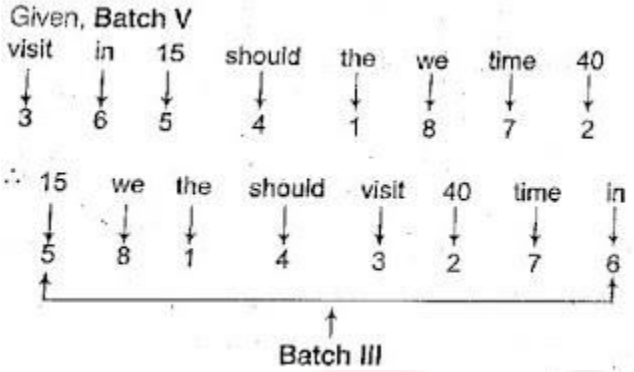
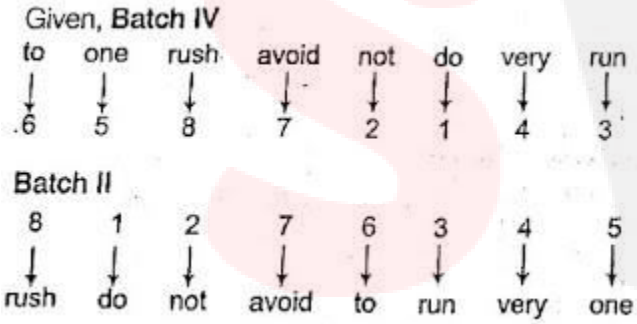
**Answer is:** c)

7).



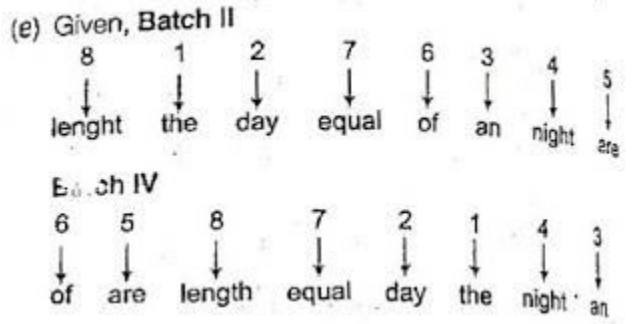

**Answer is:** d)

8).




**Answer is:** a)

9).




**Answer is:** e)

10).

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Given, **Batch II**

| to | come | hard | you | did | work | and | success |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 8 | 1 | 2 | 7 | 6 | 3 | 4 | 5 |

**Batch IV**

| 6 | 5 | 8 | 7 | 2 | 1 | 4 | 3 |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| did | success | to | you | hard | come | and | work |

**Answer is:** a)

11).

Given, **Batch VI**

| the | pencil | by | all | boys | used | are | pen |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 2 | 3 | 6 | 7 | 8 | 5 | 4 | 1 |

∴ **Batch I**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| pen | the | pencil | are | used | by | all | boys |

**Answer is:** c)

**Directions (Q.1-5): Study the following information carefully and answer the questions give below:**

A word and number arrangement machine when given an input line of words and number rearranges them following particular rule in each step. The following is an illustration of an input and its rearrangement.

**Input:** some 31 tower down 32 29 what 45 ice 52 ice 52 75 all
**Step I:** what 75 some 31 tower down 32 29 45 ice 52 all
**Step II:** what 75 tower 52 some 31 down 32 29 45 ice all
**Step III:** what 75 tower 52 some 45 31 down 32 29 ice all
**Step IV:** what 75 tower 52 some 45 down 32 31 29 ice all

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**Step V:** what 75 tower 52 some 45 down 32 all 31 29 ice

**Step VI:** what 75 tower 52 some 45 down 32 all 31 ice 29

And Step VI is the last step of the above input. As per the rules followed in the above steps, find out the appropriate steps for the above input.

**Input:** equal 54 inter 83 out town 25 79 under close 57 price 12

**1).** How many steps will be required to complete the rearrangement?

a) six
b) five
c) four
d) seven
e) None of these

Show/Hide Answer

Answer: b)

**2).** Which of the following would be at the seventh position from the right in step IV?

a) equal
b) 57
c) 54
d) Inter
e) None of these

Show/Hide Answer

Answer: a)

**3).** Which step number would be the following output? Town 83 price 79 close 57 equal 54 inter under 25 out 12

a) Step VI
b) Step III
c) Step IV

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d) There is not such step

e) None of these

Show/Hide Answer

Answer: d)

**4).** If in the last step all the words get rearranged in alphabetical order, which of the following words will remain at its original position?

a) inter

b) price

c) out

d) under

e) None of these

Show/Hide Answer

Answer: d)

**5).** How many words/numbers are there between '79' and 'inter' in step II?

a) Four

b) Three

c) None

d) Two

e) None of these

Show/Hide Answer

Answer: d)

**Directions (Q.6-10): Study the following information carefully to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement.

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**Input:** 27 cookies 63 71 queen word 29 out favorite 67

**Step I:** word 27 cookie 63 71 queen 29 out favorite 67

**Step II:** word 29 27 cookie 63 71 queen out favorite 67

**Step III:** word 29 out 27 cookie 63 71 queen favorite 67

**Step IV:** word 29 out 67 27 cookie 63 71 queen favorite

**Step V:** word 29 out 67 queen 27 cookie 63 71 favorite

**Step VI:** word 29 out 67 queen 71 27 cookie 63 favorite

**Step VII:** word 29 out 67 queen 71 cookie 27 63 favorite

**Step VIII:** word 29 out 67 queen 71 cookie 63 27 favorite

**Step IX:** word 29 out 67 queen 71 cookie 63 favorite 27

And step IX is the last step of the above input. As per the rules followed in the above steps, find out the appropriate step for the above input.

**Input:** 49 association 25 31 glass 59 countries 23 state hoodooing 33 cities

**6).** Which of the following is the fourth element from the left end of the Step V?

a) state
b) 31
c) association
d) countries
e) None of these

Show/Hide Answer

Answer: b)

**7).** How many words are the between '59' and '33' in Step IV?

a) Three
b) One
c) Two
d) One

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e) None of these

Show/Hide Answer

Answer: c)

8). How many steps will be required to complete the given input?

a) Eight

b) Seven

c) Six

d) Nine

e) None of these

Show/Hide Answer

Answer: d)

9). Which of the following comes between 'cities' and ''33' in the last step?

a) 49, hoodooing, 33

b) 59, countries, 49, hoodooing

c) Association. Hoodooing, 59

d) Countries, 49

e) None of these

Show/Hide Answer

Answer: b)

10). Which of the following is second to the left of 'countries' in Step VI?

a) hoodooing

b) 59

c) cities

d) association

e) None of these

Show/Hide Answer

Answers:

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1). b) 2). a) 3). d) 4). d) 5). d) 6). b) 7). c) 8). d) 9). b) 10). d)

Solution:

Question (1-5):

The machine rearranges a word along with a number in each step. First it rearranges words starting with a consonant in reverse alphabetical order and then words starting with a vowel in alphabetical order. Numbers are arranged in descending order.

Input: equal 54 inter 83 out town 25 79 under close 57 price 12
Step I: town 83 equal 54 inter out 25 79 under close 57 price 12
Step II: town 83 price 79 equal 54 inter out 25 under close 57 12
Step III: town 83 price 79 close 57 equal 54 inter out 25 under12
Step IV: town 83 price 79 close 57 equal 54 inter 25 out under 12
Step V: town 83 price 79 close 57 equal 54 inter 25 out 12 under

1. Answer: b)

2. Answer: a)

3. Answer: d)

4. After arranging it in alphabetical order: close 83 equal 79 inter 57 out 54 price 25 town 12 under. Hence 'under' will remain at its original position.
Answer: d)

5. Answer: d)

Question (6-10):

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The machine rearranges the words and the numbers in alternate step from left to right. The words are arranged according to the numbers of vowels in the word in ascending order. While for the numbers, first the prime numbers are arranged in ascending order and then the composite numbers are arranged in descending order.

**Input:** 49 association 25 31 glass 59 countries 23 state hoodooing 33 cities
**Step I.** glass 49 association 25 31 countries 23 state hoodooing 33 cities
**Step II.** glass 23 49 association 25 31 59 countries state hoodooing 33 cities.
**Step III.** glass 23 state 49 association 25 31 59 countries hoodooing 33 cities
**Step IV.** glass 23 state 31 49 association 25 59 countries hoodooing 33 cities
**Step V.** glass 23 state 31 cities 49 association 25 59 countries hoodooing 33
**Step VI.** glass 23 state 31 cities 59 49 association 25 countries hoodooing 33
**Step VII.** glass 23 state 31 cities 59 countries 49 association 25 hoodooing 33
**Step VIII.** glass 23 state 31 cities 59 countries 49 hoodooing association 25 33
**Step IX.** glass 23 state 31 cities 59 countries 49 hoodooing 33 associations 25

**6. Answer: b)**

**7. Answer: c)**

**8. Answer: d)**

**9. Answer: b)**

**10. Answer: d)**

**Directions (Q. 1-5): Study the given information and answer the following questions.**
A word and number arrangement machine when given an input line of word and numbers rearranges them following a particular rule. The following is an illustration of input and its rearrangement.

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Input: economy on 16 is cool hot begin 14 but new again 24

Step I: begin 14 economy on 16 is cool hot but new again 24

Step II: begin 14 again 24 economy on 16 is cool hot but new

Step III: begin 14 again 24 on 16 economy is cool hot but new

Step IV: begin 14 again 24 on 16 economy cool is hot but new

Step V: begin 14 again 24 on 16 economy cool new is hot but

Step VI: begin 14 again 24 on 16 economy cool new hot is but

Step VII: begin 14 again 24 on economy cool new hot but is

Step VIII: begin 14 again 24 on 1 6 5 3 1 4 8 2 9

Step VIII is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the following input.

Input: garden heat 36 in 28 below normal in 23 over

**1).** Which of the following would be the last step of the arrangement?

a) in 23 heat 36 in 28 normal garden below over
b) in 23 heat 36 in 28 1 4 7 2 1 5
c) in 36 heat 28 in 23 1 4 7 2 1 5
d) in 23 heat 36 in 28 7 1 4 1 5 2
e) none of these

**2).** Which step number will be the following output? 'in 23 heat 36 in 28 garden below normal over'

a) step III
b) step IV
c) step VI
d) step V
e) there will be no such step

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**3).** In step IV which of the following words/ numbers would be at 4th position from the right?

a) over
b) 36
c) below
d) normal
e) none of these

**4).** Which of the following steps will be the last but one step of the rearrangement?

a) step IV
b) step V
c) step VI
d) step VII
e) none of these

**5).** In step III if 'in' is related to '28' , '23' is related to 'garden' and 'heat' is related to 'below' in a certain way' , which of the following would '36' be related to in the same pattern?

a) in
b) normal
c) over
d) 23
e) none of these

**Direction (Q. 6-10): Read the given information and answer the questions.**

When a word and number arrangement machine is given an input line of words and numbers it arranges them following a particular rule. The following is an illustration of input and rearrangement. (all the numbers are two – digit numbers)

Input: left 46 burn 82 95 part 72 vibe bold 49 mint 59

Step I. 95 left 46 burn 82 part 72 vibe 49 mint 59 bold

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Step II. 82 95 left 46 part 72 vibe 49 mint 59 bold burn

Step III. 72 82 95 46 part vibe 49 mint 59 bold burn left

Step IV. 59 72 82 95 46 part vibe 49 bold burn left mint

Step V. 49 59 72 82 95 46 vibe bold burn left mint part

Step VI. 46 49 59 72 82 95 bold burn left mint part vibe

Step VI is the last step of the above arrangement as the intended output of arrangement is obtained.

As per the rule followed in the given steps, find the appropriate steps for the given input.

Input: 29 cone 42 pale fear 39 67 fame 32 weld 77 turn.

6). Which step number is the following output? 77 29 42 pale fear 39 67 fame 32 weld turn cone

a) I
b) III
c) VI
d) IV
e) there is no such step

7). What is the position of 'fame' from the right of '67' in the second – last step?

a) eighth
b) third
c) fifth
a) d)ninth
d) seventh

8). Which of the following is the fifth element to the right of "29" in step II ?

a) cone
b) turn
c) fame

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d) 39
e) 32

9). How many elements are there between '77' and 'weld' in the last step?

a) five
b) three
c) one
d) four
e) two

10). In step II, which element(s) appear(s) exactly between 'pale' and '32'?

a) only 'weld'
b) both 'weld' and '42'
c) both 'fear' and '39'
d) only 'fear'
e) only '39'

11). Which of the following represents the first two and the last two elements in the third last step?

a) 32, 39, pale, weld
b) 39, 42, fear, pale
c) 29, 32, pale, turn
d) 29,32, pale, weld
e) 32,39,fear, pale

Answer:

1) b) 2) a) 3) d) 4) a) 5) b) 6) a) 7) c) 8) e) 9) a) 10) c) 11) b)

Solutions:

Questions (1-5):

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The machine first rearranges words which are along with numbers according to the ascending order of sum of the digits of the numbers. And then remaining words are arranged in descending order of the length, then they are arranged in reverse alphabetical order.

In the last step, except the words that are along with numbers, the place value of the first letter of the words is written in the place of words in alphabet.

Input: garden heat 36 in 28 below normal in 23 over.

Step I. In 23 garden heat 36 garden in 28 below normal over.

Step II. In 23 heat 36 garden in 28 below normal over

Step III. In 23 heat 36 in 28 garden below normal over

Step IV. In 23 heat 36 in 28 garden below normal over

Step V. in 23 heat 36 in 28 24 7 2 15

**1. Answer: b)**

**2. Answer: a)**

**3. Answer: d)**

**4. Answer: a)**

**5. Answer: b)**

**Questions (6-11):**

In every step a number is arranged on the left end and a word on the right end. We begin with the largest number, then the second largest, and so on, till all the numbers are arranged in ascending order. Words are arranged in the alphabetical order.

Input: 29 cone 42 pale fear 39 67 fame 32 weld 77 turn

Step I. 77 29 42 pale fear 39 67 fame 32 weld turn cone

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Step II. 67 77 29 42 pale fear 39 32 weld turn cone fame

Step III. 42 67 77 29 pale 39 32 weld turn cone fame fear

Step IV. 39 42 67 77 29 32 weld turn cone fame fear pale

Step V. 32 39 42 67 77 29 weld cone fame fear pale turn

Step VI. 29 32 42 67 77 cone fame fear pale turn weld

6. Answer: a)

7. Answer: c)

8. Answer: e)

9. Answer: a)

10. Answer: c)

11. Answer: b)

Directions (Q. 1 – 5): A word and number arranging machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:

Input: are 42 for 56 the 25 was 32 wow

Step I: era 24 rof 65 eht 52 saw 23 wow

Step II: aer 6 for 2 eht 7 asw 5 oww

Step III: aer 64 ofr 16 eht 81 asw 49 oww

Step IV: aer 16 ofr 64 eht 81 asw 49 oww

Step V: aer 16 asw 64 eht 81 ofr 49 oww

Step VI: aer 16 asw 49 eht 81ofr 64 oww

Step VII: aer 16 asw 49 eht 64 offr 81 oww

And step VII is the last and final step.

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1). Which of the following will be step III for the following input?

Input: cut 29 may 82 sip 22 lit 44 kin

a) uct 16 amy 144 isp 36 lit 100 ikn
b) cut 16 amy 9 ips 36 lit 100 ikn
c) ctu 4 may 100 isp 16 ilt 64 ink
d) tuc 4 yma 100 ips 16 lit 64 kin
e) None of these

2). Which of the following would be the input for step IV?

Step IV: afn 36 aan 81 act 169 eot 9 uct

a) Fan 6 naa 9 cat 13 toe 3 cut
b) Fan 4 naa 7 cat 11 toe 1 cut
c) Fan 61 haa 42 toe 31 cut 12 cat
d) Can't be determined
e) None of these

3). How many steps would be required to get the final output for the following input?

Input: RIN 81 TIN 49 NIT 69 CON 84 BON

a) three
b) four
c) five
d) six
e) more than six

4). Which of the following will be the last step for the input in question no.8?

a) INR 121 INT 221 INT 343 OBN 196 OCN
b) INR 121 INT 225 INT 196 OBN 343 ODN
c) INR 121 INT 225 INT 196 OBN 343 OCN
d) INN 121 INT 225 INT 196 OBN 343 OCN
e) None of these

5). If step I is as follows, what would be the Input?

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Step I: nwo 24 top 46 cot 81 pat 91 tap

a) Own 42 pot 64 toc 18 tap 19 tap
b) Now 24 opt 46 oct 81 pat 91 pat
c) Own 42 pot 64 toc 18 tao 19 pat
d) Can't be determined
e) None of these

**Directions (Q. 6 – 10): A word and number arranging machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

Input: happy new year to all our readers
Step I: year happy new all our readers to
Step II: all year happy new readers to our
Step III: happy all year readers to our new
Step IV: readers happy all year our new to
and so on.

As per the rule followed in the above steps, find out the appropriate answers to the following questions:

**6).** Which of the following steps will be "happy new year to all our readers" for the above sample input?

a) Step VII
b) Step X
c) Step XII
d) Step XIII
e) Step XIV

**7).** Input : aspirants desired your fulfil will year new

Which of the following will be the seventh step for this input?

a) Can't say
b) Year will new aspirations fulfil your desired

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c) New year will fulfil your desired aspirations
d) Your desired aspirations new year will fulfuil
e) None of these

8). Input: din bik maati ek ke jayega mol
Which of the following steps would be
"ek mol jayega ke bik din maati'?

a) Step V
b) Step VI
c) Step VII
d) Step VIII
e) Step IX

9). If step X of an input is
"tittle hanky tattle panky hob nob mob"
Which of the following would be step XII?

a) Tittle hob tattle mob panky nob hanky
b) Panky hob tattle mob tittle nob hanky
c) Hanky hob tattle mob tittle nob panky
d) Hanky tattle hob mob tittle nob panky
e) None of these

10). If step IV of an input is
"all done half right at none for"
Which of the following would definitely be the input?

a) Can't be determined
b) Done none right for half at all
c) All at half for right none done
d) Right none done all at half for
e) None of these

Answers:

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1). e) 2). d) 3). b) 4). e) 5). c) 6). e) 7). c) 8). d) 9). a) 10). b)

Solution:

1). We can straight away go to step III from input by putting vowel first and then the letters and by summing the digits and then$(x + 2)^2$. So step III is:

uct 16 amy 9 ips 36 ilt 100 ikn

Answer: e)

2). We can't go backwards from step IV

Answer: d)

3). RIN 81 TIN 49 NIT 69 CON 84 BON

Step I: NIR 18 NIT 94 TIN 96 NOC 48 NOB

Step II: INR 9 INT 4 INT 6 CON 3 BON

Step III: INR 121 INT 36 INT 64 OCN 25 OBN

Step IV: INR 25 INT 36 INT 64 OBN 121 OCN

It is arranged in ascending order. It takes four steps.

Answer: b)

4). The last step is as above. This is no – where in the options. So None of these

Answer: e)

5). Step I: now 24 top 46 cot 81 pat 91 tap

Input: own 42 pot 64 toc 18 tap 19 pat

Answer: c)

Question (6-10):

For the sake of convenience, assign numbers to each word of the input:

| Input | Happy | new | year | to | all | our | readers |
|---|---|---|---|---|---|---|---|

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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|

Now, in step I, the third word comes at the beginning and the first and the second words are pushed rightwards. Also, the fourth word goes at the end and the remaining words are pushed leftwards.

In step II, the fourth word from the previous step comes at the beginning while the first three words are pushed rightwards. Also, the fifth word of step I goes at the end and the remaining words are pushed leftwards.

These steps are repeated thereafter. For the sake of convience, we plot the movement of each word in each step by the numbers assigned to them in the input.

**Chart - I**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Input: | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Step I: | 3 | 1 | 2 | 5 | 6 | 7 | 4 |
| Step II: | 5 | 3 | 1 | 2 | 7 | 4 | 6 |
| Step III: | 1 | 5 | 3 | 7 | 4 | 6 | 2 |
| Step IV: | 7 | 1 | 5 | 3 | 6 | 2 | 4 |
| Step V: | 5 | 7 | 1 | 6 | 2 | 4 | 3 |
| Step VI: | 6 | 5 | 7 | 1 | 4 | 3 | 2 |
| Step VII: | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Step VIII: | 4 | 7 | 6 | 5 | 2 | 1 | 3 |

**6).** It is obvious from the above chart that in the seventh step the order of the words of the given input reverses. Hence, again in the fourteenth step order of the words in the seventh step will reverse. Thus the fourteenth step will remain as the given input.

**Answer: e)**

**7).** Input: aspirations desired your fulfill will year new

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Step VII: | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| | New | year | will | fulfil | your | desired | aspirations |

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**Answer: c)**

**8).** Input: din bik maati ek ke jayega mol

1 2 3 4 5 6 7

Given step: ek mol jayega ke bik din maati

4 7 6 5 2 1 3

Obviously, it is step VIII.

**Answer: d)**

**9).** As we have studied, in the magical Book series on Analytical reasoning written by MK Pandey, step X to step XIII can be reduced by Golden Rule. According to the rule step X to step XIII reduces to step 0 to step III because the given sample is a two type case. Note that in two – type case changing input to step I does not match with changing from step I to step II but certainly matches with step II to step III.

Thus assume step X as step 0 (input) and step XIII as step III.

Now,

Input: tittle hanky tattle panky hob nob mob

1 2 3 4 5 6 7

Step III: 1 5 3 7 4 6 2

Tittle hob tattle mob panky nob hanky

Thus, step XIII will be Tittle hob tattle mob panky nob hanky

**Answer: a)**

**10).** Step IV: all done half right at none for

7 1 5 3 6 2 4

Input: 1 2 3 4 5 6 7

Done none right for half at alll

**Answer: b)**

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**Directions (Q.1-5): A word arrangement machine when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

Input: and band land handhind lack job
Step I: hind and band lack land hand job
Step II: hind band land job and lack hand
Step III: hind and lack band hand land job
Step IV: land band and job hand lack hind
Step V: hand land band lack and job hind
Step VI: hand band and hind land lack job and so on.
As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.

**1).** Input: do we he is at all
Which of the following steps would be
"all we he is do at it"?

a) It is not possible to get the above step
b) Step VI
c) Step IX
d) Step X
e) None of these

**2).** If Step IV of an input is "he is to do what her observe",
Which of the following would be the input?

a) To is he what observe her do
b) He is to what observe her do
c) Is he to what observe her do
d) Can't say
e) None of these

**3).** If Step IIII of an input is

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"when them men can how are you"

What would be step VII of the input?

a) Then can are when you men how
b) How are men can you then when
c) You then can men are when how
d) How can them men are when you
e) None of these

**4).** Input: Stejpan Mesic is the president of Croatia

Which of the following will be step VIII for this input?

a) The mesic stejpan president is of croatia
b) The is of mesic Croatia stejpan president
c) Sejpan mesic is president Croatia of the
d) The stejpan mesic of is president Croatia
e) None of these

**5).** If Step V of an input is

"will you hit centuries three again at",

What will be the middle three words of step VII?

a) Will you hit
b) You hit centuries
c) Hit centuries three
d) Centuries again
e) None of these

**Directions (6-10): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.**

Input: pull the cover and then push into

Step I: pull the then and cover push into

Step II: then the pull into push cover and

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Step III: into pull the then and cover push

Step IV: into pull and then the cover push and so on

6). Input: Try your best until you get goal

Which of the following steps would be 'get goal try until you your best'?

a) Step II
b) Step III
c) Step IV
d) Step V
e) None of these

7). If Step VI of an input is

"deep gutter ball into the has fallen"

Which of the following would definitely be the input?

a) Has the ball fallen into deep gutter
b) Ball has fallen into the deep gutter
c) Deep gutter has fallen into the ball
d) Gutter has deep ball fallen into the
e) None of these

8). If Step IV of an input is

"we can't measure the depth without scale",

What would be step VII?

a) Scale we the measure can't depth without
b) The we scale without depth can't measure
c) Without we scale the can't measure depth
d) The we depth without scale can't measure
e) None of these

9). Input: standing hard always is impossible for all

Which of the following will be step VIII for this input?

a) Hard all standing is impossible for always

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b) Hard all impossible is standing for always
c) Impossible all hard always for standing is
d) Impossible all for always hard standing is
e) None of these

**10).** If step I of an input is "Play and Jump until you tired fully"
What would be step VI of the input given above?

a) Jump fully tired you and play until
b) Tired fully jump until play and you
c) Tired fully play until jump and you
d) Play fully tired you and jump until
e) None of these

**Answers:**

1). d) 2). a) 3). b) 4). c) 5). e) 6). e) 7). b) 8). a) 9). d) 10). c)

**EXPLANATIONS**

Here the rule followed is:

P.If Input is 1 2 3 4 5 6 7, then Step I becomes5 1 2 6 3 4 7.

Q .If Step I is 1 2 3 4 5 6 7, then Step II becomes 1 3 5 7 2 4 6.

R.If Step II is 1 2 3 4 5 6 7, then Step III becomes 1 5 6 2 7 3 4.

S .If Step III is 1 2 3 4 5 6 7, then Step IV becomes 6 4 2 7 5 3 1.

Again, rules P, Q, R and S are used to get steps V, VI, VII and VIII respectively. The process continues for steps 1X, X,…..

For convenience, we assign a letter for each word of the Input:

And A, band –B, land –C, hand –D, hind-E, lack –F, job –G

| Chart | | | | | | | |
|---|---|---|---|---|---|---|---|
| Input: | A | B | C | D | E | F | G |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Step I: | E | A | B | F | C | D | G |
| Step II: | E | B | C | G | A | F | D |
| Step III: | E | A | F | B | D | C | G |
| Step IV | C | B | A | G | D | F | E |
| Step V | D | C | B | F | A | G | E |
| Step VI | D | B | A | E | C | F | G |
| Step VII | D | C | F | B | G | A | E |
| Step VIII | A | B | C | E | G | F | D |
| Step IX | G | A | B | F | C | E | D |
| Step X | G | B | C | D | A | F | E |

**1.** Input: do we he is it at all

A B C D E F G

Given step: all we he is do at it

G B C D A F E

Now, see the chart. Letters assigned for step X match with the letters obtained for the given step.

**Answer: d)**

**2.** Step IV: he is to do what her observe

C B A G D F E

Input: A B C D E F G

to is he what observe her do

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**Answer: a)**

**3.** Step III: when then men can how are you

E A F B D C G

Step VII: D C F B G A E

How are men can you then when

**Answer: b)**

**4.** Input: stejpan mesic is the president of Croatia

A B C D E F G

Step VIII: A B C E G F D

Stejpan mesic is president croatia of the

**Answer: c)**

**5.** Step V: will you hit centuries three again at

D C B F A G E

Step VII: D C F B G A E

Will you centuries hit again three at

**Answer: e)**

**Questions (6-10):**

It is a case of three-step type shifting. As you have reed in our Magical Book Series: Analytical Reasoning by MK Pandey in a 3-step shifting, the change in going from Input to step I differs from the change from step I to step II and step II to step III. The change from Input to step I matches with the change from step III to step IV; the change from step I to step II matches with the change from step IV to step V; and the change from step II to step III matches with the change from step V to step VI. Let us replace the word of the input by letters pull =A, the =B, cover=C, and =D, then =E, push =F, into =G

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|

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| Input: | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| Step I: | A | B | E | D | C | F | G |
| Step II: | E | B | A | G | F | C | D |
| Step III: | G | A | B | E | D | C | F |
| Step IV | G | A | D | E | B | C | F |
| Step V | D | A | G | F | C | B | E |
| Step VI | F | G | A | D | E | B | C |
| Step VII | F | G | E | D | A | B | C |
| Step VIII | E | G | F | C | B | A | D |

**6.** Step VI

Input: Try your best until you get goal

A B C D E F G

Get goal try until you your best

F G A D E B C

Now, see the chart. You get FGADEBC in step VI.

**Answer: e)**

**7.** Step VI: deep gutter ball into the has fallen

F G A D E B C

Input: A B C D E F G

Ball has fallen into the deep gutter

**Answer: b)**

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**8.** Step IV: we can't measure the depth without scale

G A D E B C F

Step VII: F G E D A B C

Scale we the measure can't depth without

**Answer: a)**

**9.** Input: standing hard always is impossible for all

A B C D E F G

Step VIII: E G F C B A D

Impossible all for always hard standing hard standing is

**Answer: d)**

**10.** Step I: play and jump until you tired fully

A B E D C F G

Step VI: F G A D E B C

Tired fully play until jump and you

**Answer: c)**

**Directions (Q. 1 – 5): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: exam 81 56 over down up 16 64

Step I: down exam 81 56 over up 16 64

Step II: down 81 exam 56 over up 16 64

Step III: down 81 exam 64 56 over up 16

Step IV: down 81 exam 64 over 56 up 16

And Step IV is the last step of the rearrangement of the above input.

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As per the rule followed in the above steps, answer the following questions.

**1).** Input: 98 11 64 22 but will an it

Which of the following will be step VI?

a) Step VI can't be possible because step V will be the last step
b) An 98 but 64 it 22 11 will
c) An 98 but 64 it 22 will 11
d) An 11 but 22 it 64 will 98
e) None of these

**2).** Input: 32 now 20 gift 53 box 62 at

Which of the following will be step IV?

a) At 62 box 53 32 now 20 gift
b) At 62 box 53 gift 32 now 20
c) At 62 box 53 gift 20 now 32
d) At 62 53 box 32 now 20 gift
e) Other than given options

**3).** Input: Pay by 18 36 nose ear 72 54

Which of the following steps will be the last step?

a) Can't say
b) Five
c) Seven
d) Six
e) None of these

**4).** Step III of an input is: damn 96 flag 87 78 14 saint put

Which of the following steps will be the last but one?

a) Can't say
b) Four
c) Five
d) Six

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e) None of these

5).Step II of an input is: jug 99 wax sun top 15 31 47
Which of the following is definitely the input?

a) Wax sun top 15 31 47 jug 99
b) Wax sun jug 99 top 15 31 47
c) Wax sun top jug 99 15 31 47
d) Cannot be determined
e) None of these

**Directions (Q. 6 – 10): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: cook 32 look 39 give 95 take 47 71
Step I: 95 32 look 39 give cook take 47 71
Step II: 95 71 look 39 give cook take 47 32
Step III: 95 71 take 39 give cook look 47 32
Step IV: 95 71 take look give cook 39 47 32
Step V: 95 71 take look 47 cook 39 give 32
Step VI: 95 71 take look 47 give 39 cook 32
Step VII: 95 71 take look 47 give cook 39 32
Step VII is the final Output of this machine

6). If "97 82 sun 50 moon night 36 72 evening" is step 2 then how many more steps are required to reach on final output?

a) 5 steps more
b) 6 steps more
c) 4 steps more

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d) 3 steps more
e) None of these

7). "82 92 fighter next 88 tire army 29 75" is the input of a machine and "92 88 tire next 86 fighter army 29 75" is one of the step of given input. Find out which step is it?

a) Step III
b) Step IV
c) Step V
d) This step is not possible
e) None of these

8). "52 42 tag mug 36 hug 40 bag 21" is the step no.3 of an input. Find out the step I from this step.

a) 52 36 40 mug 42 hug tag bag 21
b) 52 40 mug 36 42 tag hug bag 21
c) 52 36 mug 40 hug 42 tag bag 21
d) Can't be determined
e) None of these

9). If an input of a machine is "94 hair fair 61 dare 69 share 57 32", find out the step 4.

a) 94 69 share hair 61 fair dare 57 32
b) 94 69 share hair dare 61 57 fair 32
c) 94 69 share fair 61 dare fair 57 32
d) 94 69 share hair 61 57 dare fair 32
e) None of these

10). If step 2 is "99 83 hate gate 64 rate 23 date 57" then how many more steps are required to get the final output?

a) 3 step
b) 4 step
c) 5 step
d) It can't b step 2

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e) None of these

Answers:

1). c) 2). a) 3). d) 4). b) 5). d) 6). c) 7). a) 8). d) 9). c) 10). b)

Solution:

Question (1-5):

Here logic is very simple. It is a case of Arrangement. Input and following steps gives the following information:
In step I the word which comes first according to alphabetical order rearranges first.
In second step the highest among the given numbers get arranged and occupies the place after the word arranged in step I.
These two steps get repeated alternatively. Thus, in the last step all the words get arranged alphabetically whereas numbers get arranged in descending order. If any word or number is already arranged in any step, the next number or word is arranged.

1). Input: 98 11 64 22 but will an it
Step I: an 98 11 64 22 but will it
Step II: an 98 but 11 64 22 will it
Step III: an 98 but 64 11 22 will it
Step IV: an 98 but 64 it 11 22 will
Step V: an 98 but 64 it 22 11will
Step VI: an 98 but 64 it 22 will 11
Answer: c)

2). Input: 32 now 20 gift 53 box 62 at
Step I: at 32 now 20 gift 53 box 62
Step II: at 62 32 now 20 gift 53 box
Step III: at 62 box 32 now 20 gift 53
Step IV: at 62 box 53 32 now 20 gifts

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**Answer: a)**

**3).** Input: pay by 18 36 nose ear 72 54

Step I: by pay 18 36 nose ear 72 54

Step II: by 72 pay 18 36 nose ear 54

Step III: by 72 ear pay 18 36 nose 54

Step IV: by 72 ear 54 pay 18 36 nose

Step V: by 72 ear 54 nose pay 18 36

Step VI: by 72 ear 54 nose 36 pay 18

**Answer: d)**

**4).** Step III: damn 96 flag 87 78 14 saint put

Step IV: damn 96 flag 87 put 78 14 saint

Step V: damn 96 flag 87 put 78 saint 14

Step V is the last step. Therefore penultimate step is step IV.

**Answer: b)**

**5).** Previous steps cannot be determined

**Answer: d)**

**6).** Step II: 97 82 sun 50 moon night 36 72 evening

Step III: 97 82 sun night moon 50 36 72 evening

Step IV: 97 82 sun night 72 50 36 moon evening

Step V: 97 82 sun night 72 moon 36 50 evening

Step VI: 97 82 sun night 72 moon evening 50 36

Four more steps are required

**Answer: c)**

**7).** Input: 86 92 fighter next 88 tire army 29 75

Step I: 92 86 fighter next 88 tire army 29 75

Step II: 92 88 fighter next 86 tire army 29 75

Step III: 92 88 tire next 86 fighter army 29 75

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This step is step no.3

**Answer: a)**

**8).** "52 42 tag mug 36 hug 40 bag 21" is step 3 and finding step 1 is not possible.

Can't be determined

**Answer: d)**

**9).** Input: 94 hair fair 61 dare 69 share 57 32

Step I: 94 69 fair 61 dare hair share 57 32

Step II: 94 69 share 61 dare hair fair 57 32

Step III: 94 69 share hair dare 61 fair 57 32

Step IV: 94 69 share hair 61 dare fair 57 32

**Answer: c)**

**10).** 99 83 hate gate 64 rate 23 date 57

After just 4 step (more) we will reach on final output.

99 83 rate hate 64 gate date 57 23

**Answer: b)**

**Directions (Q. 1 – 5): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

Input : cook 32 look 39 give 95 take 47 71

Step I: 95 32 look 39 give cook take 47 71

Step II: 95 71 look 39 give cook take 47 32

Step III: 95 71 take 39 give cook look 47 32

Step IV: 95 71 take look give cook 39 47 32

Step V : 95 71 take look 47 cook 39give 32

Step VI: 95 71 take look 47 give 39 cook 32

Step VII: 95 71 take look 47 give cook 39 32

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**1).**If “97 82 sun 50 moon night 36 72 evening” is step 2 then how many more steps are required to reach on final output?

a) 5 steps more
b) 6 steps more
c) 4 steps more
d) 3 steps more
e) None of these

**2).**”86 92 fighter next 88 tire army 29 75” is the input of a machine and “ 92 88 tire next 86 fighter army 29 75” is one of the step of given input. Find out which step is it?

a) Step III
b) Step IV
c) Step V
d) This step is not possible
e) None of these

**3).**”52 42 tag mug 36 hug 40 bag 21” is the step no.3 of an input. Find out the step 1 from this step.

a) 52 36 40 mug 42 hug tag bag 21
b) 52 40 mug 36 42 hug tag bag 21
c) 52 36 mug 40 hug 42 tag bag 21
d) Cant be determined
e) None of these

**4).**If input of a machine is “94 hair fair 61 dare 69 share 57 32”, find out the step 4.

a) 94 69 share hair 61 fair dare 57 32
b) 94 69 share hair dare 61 57 fair 32
c) 94 69 share hair 61 dare fair 57 32
d) 94 69 share hair 61 57 dare fair 32
e) None of these

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5).If step 2 is " 99 83 hate gate 64 rate 23 date 57", then how many more steps are required to get the final output?

a) 3 step
b) 4 step
c) 5 step
d) It can't be step 2
e) None of these

**Directions (Q. 6 – 10): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement.**

Input : pull the cover and then push into
Step I : pull the then and cover push into
Step II : then the pull into push cover and
Step III : into pull the then and cover push
Step IV : into pull and then the cover push
and so on.

6).Input : Try your best until you get goal
Which of the following steps would be 'get goal try until you your best' ?

a) Step II
b) Step III
c) Step IV
d) Step V
e) None of these

7).If step VI of an input is
'deep gutter ball into the has fallen'
Which of the following would definitely be the input?

a) has the ball fallen into deep gutter
b) ball has fallen into the deep gutter
c) deep gutter has fallen into the ball

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d) gutter has deep ball fallen into the
e) None of these

8).If step IV of an input is
'We can't measure the depth without scale'.
What would be step VII?

a) scale we the measure can't depth without
b) the we scale without depth can't measure
c) without we scale the can't measure depth
d) the we depth without scale can't measure
e) None of these

9).Input : standing hard always is impossible for all
Which of the following will be step VIII for this input?

a) hard all standing is impossible for always
b) hard all impossible is standing for always
c) impossible all hard always for standing is
d) impossible all for always hard standing is
e) None of these

10).If Step I of an input is 'play and jump until you tired fully',
What would be step VI of the input given above?

a) jump fully tired you and play until
b) tired fully jump until play and you
c) tired fully play until jump and you
d) play fully tired you and jump until
e) None of these

Answers:
1). c) 2).a) 3). d) 4). c) 5). b) 6). e) 7). b) 8). a) 9). d) 10).c)

Solution:

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1).Step II : 97 82 sun 50 moon night 36 72 evening

Step III : 97 82 sun night moon 50 36 72 evening

Step IV : 97 82 sun night 72 50 36 moon evening

Step V : 97 82 sun night 72 moon 36 50 evening

Step VI : 97 82 sun night 72 moon evening 50 36

Four more steps are required.

**Answer: c)**

2).Input : 86 92 fighter next 88 tire army 29 75

Step II : 92 86 fighter next 88 tire army 29 75

Step III : 92 88 fighter next 86 tire army 29 75

This step is step no. 3

**Answer: a)**

3).“ 52 42 tag mug 36 hug 40 bag 21” is step 3 and finding step 1 is not possible.

Can’t be determined.

**Answer: d)**

4).Input : 94 hair fair 61 dare 69 share 57 32

Step I : 94 69 fair 61 dare hair share 57 32

Step II : 94 69 share 61 dare hair fair 57 32

Step III : 94 69 share hair dare 61 fair 57 32

Step IV : 94 69 share hair 61 dare fair 57 32

**Answer: c)**

5).99 83 hate gate 64 rate 23 date 57

After just 4 step (more) we will reach on final output.

99 83 rate hate 64 gate date 57 23

**Answer: b)**

**Solution for (Q. 6 – 10):**

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It is a case of three – step type shifting. In a 3 –step type shifting, the change in going from Input to step I differs from the change from step I to step II and step II to step III. The change from Input to step I matches with the change from Step III to Step IV; the change from step I to step II matches with the change from step IV to step V; and the change from step II to step III matches with the change from step V to step VI. Let us replace the word of the input by letters pull = A, the = B, cover = C, and = D, then = E, push = F, into = G

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Input : | A | B | C | D | E | F | G |
| Step I: | A | B | E | D | C | F | G |
| Step II : | E | B | A | G | F | C | D |
| Step III : | G | A | B | E | D | C | F |
| Step IV: | G | A | D | E | B | C | F |
| Step V : | D | A | G | F | C | B | E |
| Step VI : | F | G | A | D | E | B | C |
| Step VII : | F | G | E | D | A | B | C |
| Step VIII : | E | G | F | C | B | A | D |

**6).**Step VI

Input : Try your best until you get goal

A B C D E F G

Get goal try until you your best

F G A D E B C

Now, see the chart. You get FGADEBC in step VI.

**Answer: e)**

**7).**Step VI : deep gutter ball into the has fallen

F G A D E B C

Input : A B C D E F G

Ball has fallen into the deep gutter

**Answer: b)**

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8).Step IV : we can't measure the depth without scale

G A D E B C F

Step VII : F G E D A B C

Scale we the measure can't depth without

**Answer: a)**

9).Input : standing hard always is impossible for all

A B C D E F G

Step VIII : E G F C B A D

Impossible all for always hard standing is

**Answer: d)**

10).Step I : play and jump until you tired fully

A B E D C F G

Step VI : F G A D E B C

Tired fully play until jump and you

**Answer: c)**

**Directions (Q. 1-5): Study the following information carefully and answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement. (All numbers in these questions are two digit numbers.)

Input 16 today 32 waiting 21 are 11 people 46 bus 66 long

Step I 16 today 32 waiting 21 11 people 46 bus 66 long are

Step II 16 today 32 waiting 21 people 46 bus 66 long 11 are

Step III 16 today 32 waiting 21 people 46 66 long bus 11 are

Step IV today 32 waiting 21 people 46 66 long 16 bus 11 are

Step V today 32 waiting people 46 66 21 long 16 bus 11 are

Step VI today 32 waiting 46 66 people 21 long 16 bus 11 are

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Step VII today waiting 46 66 32 people 21 long 16 bus 11 are

Step VIII waiting 46 66 today 32 people 21 long 16 bus 11 are

Step IX waiting 66 46 today 32 people 21 long 16 bus 11 are

Step X 66 waiting 46 today 32 people 21 long 16 bus 11 are

Step is X is the last step of the arrangement of the above input as the intended arrangement is obtained.

Now, answer the questions based on the following input.

Input 23 you 13 wake 81 me 43 before 72 go 34 up

**1).** Which of these words / numbers would be fourth (from left side) in Step IV for the input?

a) me
b) 43
c) 81
d) wake
e) None of these

**2).** The following stands for which step of the rearrangement?

a) Step IX
b) Step IV
c) Step VI
d) Step V
e) None of these

**3).** Which of the following would be step II for the above input?

a) 23 you wake 81 me 43 72 34 up go 13 before
b) 23 you 13 wake 81 me 43 72 go 34 up before
c) 23 you wake 81 me 43 72 go 34 up before 13
d) 23 you wake 81 me 43 72 go 34 up 13 before
e) None of these

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4). How many steps would be needed to complete the arrangement for thew above input?

a) X
b) XI
c) VIII
d) VII
e) None of these

5). Which of the following would be the last but one step for the input?

a) you 81 72 wake up 43 34 me 23 go 13 before
b) you 81 72 wake 43 up 34 me 23 go 13 before
c) you wake 81 72 43 up 34 me 23 go 13 before
d) 81 you 72 wake 43 up 34 me 23 go 13 before
e) None of these

**Directions (Q. 6-10): Study the following information carefully and answer the given questions.**

A word and number arrangement machine when given an input line of words and number rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input truck 74 32 hall 16 cap 47 free sweep 92 peer 53
Step I 16 74 32 hall cap 47 free sweep 92 peer 53 truck
Step II 16 32 74 hall cap 47 free 92 peer 53 truck sweep
Step III 16 32 47 74 hall cap free 92 53 truck sweep peer
Step IV 16 32 47 53 74 cap free 92 truck sweep peer hall free
Step V 16 32 47 53 74 92 truck sweep peer hall free
Step VI 16 32 47 53 74 92 truck sweep peer hall free cap

Step VI is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

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Input 37 cut ace 49 ice 83 best 19 sum hot 67

6). How many steps would be needed to complete the arrangement?

a) X
b) VIII
c) VII
d) VI
e) None of these

7). Which step number would be the following output?

19 37 49 67 83 ace sum ice hot cut best

a) V
b) VI
c) IV
d) III
e) None of these

8). Which of the following would be step III?

a) 19 37 cut ace 49 ice 83 best hot 67 sum
b) 19 37 cut ace 49 83 best hot 67 sum ice
c) 19 37 49 cut ace 83 best 67 sum ice hot
d) 19 37 49 67 ace 83 best sum ice hot cut
e) None of these

9). Which of the following would be the final arrangement?

a) 19 37 49 67 83 sum ice hot cut best ace
b) 19 37 49 67 83 ace sum ice hot cut best
c) 19 37 49 67 ace 83 best sum ice hot cut
d) 19 37 cut ace 49 ice 83 best hot 67 sum
e) None of these

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**10).** In step IV, which of the following word/ number would be on seventh position from the left?

a) 83
b) best
c) sum
d) ice
e) None of these

**Answer:**

**1) a) 2) d) 3) d) 4) e) 5) b) 6) d) 7) a) 8) e) 9) a) 10) b)**

**Solutions:**

**Questions (1-5):**

Here words and numbers are arranged in ascending order from right to left alternatively and rearranging only one change in each step.

Input 23 you 13 wake 81 me 43 before 72 go 34 up
Step I 23 you 13 wake 81 me 43 72 go 34 up before
Step II 23 you wake 81 me 43 72 go 34 up 13 before
Step III 23 you wake 81 me 43 72 34 up go 13 before
Step IV you wake 81 me 43 72 34 up 23 go 13 before
Step V you wake 81 43 72 34 up me 23 go 13 before
Step VI you wake 81 43 72 up 34 me 23 go 13 before
Step VII you wake 81 72 43 up 34 me 23 go 13 before
Step VIII you 81 72 wake 43 up 34 me 23 go 13 before
Step IX 81 you 72 wake 43 up 34 me 23 go 13 before
Step IX is the last step of above input.

**1.** Step IV you wake 81 me 43 72 34 up 23 go 13 before
Clearly word 'me' is 4$^{th}$ from left end in step IV
**Answer: a)**

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**2.** Given arrangement is step V.

Step V you wake 81 43 72 34 up me 23 go 13 before

**Answer: d)**

**3.** Step II 23 you wake 81 me 43 72 go 34 up 13 before

**Answer: d)**

**4.** Clearly, step IX is the last step of above input, hence IX steps are needed to complete the arrangement.

**Answer: e)**

**5.** Since, step IX is the last step of above input, hence step VIII is the last but one step.

Step VIII you 81 72 wake 43 up 34 me 23 go 13 before

**Answer: b)**

**Questions (6-10):**

Here, numbers ascending order from left to right while words are arranged in descending order from right to left. The new word is arranged to the outermost side of the previous word in each step and rearranging two changes in each step.

Input 37 cut ace 49 ice 83 best 19 sum hot 67

Step I 19 37 cut ace 49 ice 83 best hot 67 sum

Step II 19 37 49 cut ace 83 best hot 67 sum ice

Step III 19 37 49 67 cut ace 83 best sum ice hot

Step IV 19 37 49 67 83 ace best sum ice hot cut

Step V 19 37 49 67 83 ace sum ice hot cut best

Step VI 19 37 49 67 83 sum ice hot cut best ace

Step VI is the last step of above input.

**6.** VI steps are required to complete the above arrangement.

**Answer: d)**

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**7.** Given step is step V

Step V 19 37 49 67 83 ace sum ice hot cut best

**Answer: a)**

**8.** Step III 19 37 49 67 cut ace 83 best sum ice hot

**Answer: e)**

**9.** Step VI is the final step.

Step VI 19 37 49 67 83 sum ice hot cut best ace

**Answer: a)**

**10.** Step IV 19 37 49 67 83 ace best sum ice hot cut

Clearly, word 'best' is seventh from left and in step IV.

**Answer: b)**

**Directions (Q. 1–5): Study the following information carefully to answer the given questions below.**

In a toy exhibition, a machine processes a given input by the following rule:

Input: ata put nu zil del ta cha

Step I: zil ata put cha nu del ta

Step II: cha zil ata ta put nu del

Step III: ta cha zil del ata put nu

Step IV: del ta cha nu zil ata put

and so on

Now answer the questions given below

**1).** If ' lo nui wuf go dum eu mo' is the Step V of an input, which of the following would definitely be the input?

a) Data inadequate

b) mo go lo nui eu wuf dum

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c) go mo lo eu nui wuf dum
d) mo go lo dum eu nui wuf
e) None of these

2).What will be the step VI for the following input?
Input: I don't like to listen bad jokes

a) don't like listen I jokes bad to
b) don't like listen I bad jokes to
c) like listen bad don't jokes to I
d) like bad listen don't jokes I to
e) None of these

3). Which of the following steps would read as 'listen bad jokes like to I don't ' if the answer of the Q.187 be the step IV of that input?

a) Step VIII
b) Step IX
c) Step X
d) Step XI
e) None of these

4). If step II of an input is 'dos cruk me nam ram jam sam'. which of the following will be step VIII of the input?

a) me ram jam cruk sam nam dos
b) ram jam cruk me dos sam nam
c) cruk jam ram nam me dos sam
d) me dos ram cruk jam nam sam
e) None of these

5). How many steps are needed for an input to regain its original form according to the sample given above?

a) Seven
b) Nine

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c) Eight
d) Eleven
e) None of these

**Directions (Q. 6–10): A word arrangement Machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of rearrangement.**

Input: we again 36 early 17 morning in day 7 11
Step I: again we 36 early 17 morning in day 7 11
Step II: again 36 we early 17 morning in day 7 11
Step III: again 36 early we 17 morning in day 7 11
Step IV: again 36 early 7 we 17 morning in day 11
Step V: again 36 early 7 in we 17 morning day 11
Step VI: again 36 early 7 in day we 17 morning 11
Step VII: again 36 early 7 in 17 day we morning 11
Step VIII: again 36 early 7 in 17 day 11 we morning
Step IX: again 36 early 7 in 17 day 11 morning we
And Step IX is the last step

**6).** If the following is the II step of an input what will be Vth step?
Step II: After 89 she 38 wins 11 Olympic 22 the 7

a) After 89 she 7 the 22 Olympic 11 wins 38
b) After 89 Olympic she 38 wins 11 22 the 7
c) After 89 Olympic 7 she 38 the wins 11 22
d) After 89 Olympic 7 she 38 the 11 wins 22
e) None of these

**7).** Which of the following is the last step for the Input ' eat 9 fast icecream 22 3 umbrella cat 5'?

a) cat eat 9 fast icecream 22 umbrella 3
b) eat 22 icecream 3 umbrella 9 cat 5 fast

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c) eat 22 umbrella 3 icecream 9 cat 5 fast
d) eat 22 icecream 3 umbrella 5 cat 9 fast
e) None of these

8). Which step will be the last step for the Input 'elephant 17 free open 41 27 danger 15,?
a) IV
b) V
c) VI
d) VII
e) None of these

9). Which word / number will be at 4th from the left in step V for the given input in above question 3?
a) 41
b) danger
c) open
d) 15
e) None of these

10). Which word / number will be 3rd to the right of "41" in step IV for the given input in Q.3?
a) open
b) danger
c) 15
d) 17
e) None of these

Answers:

1). e) 2). b) 3). b) 4). e) 5). a) 6). c) 7). b) 8). c) 9). d) 10). b)

Explanations:

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**Questions (1 - 5):**

Here the rule followed is:

In each step the fourth word becomes the first and the last becomes the fourth. All the other words shift simply towards right except the third, which shifts two places rightwards.

The words may be represented digitally as follows:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Input : | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Step I: | 4 | 1 | 2 | 7 | 3 | 5 | 6 |
| Step II: | 7 | 4 | 1 | 6 | 2 | 3 | 5 |
| Step III: | 6 | 7 | 4 | 5 | 1 | 2 | 3 |
| Step IV: | 5 | 6 | 7 | 3 | 4 | 1 | 2 |
| Step V: | 3 | 5 | 6 | 2 | 7 | 4 | 1 |
| StepVI: | 2 | 3 | 5 | 1 | 6 | 7 | 4 |
| Step VII: | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

and so on.

**1).** Step V: lo nui wuf go dum eu mo

3 5 6 2 7 4 1

Input: mo go lo eu nui wuf dum

1 2 3 4 5 6 7

**Answer: e)**

**2).** Input: I don't like to listen bad jokes

1 2 3 4 5 6 7

Step VI: don't like listen I bad jokes to

2 3 5 1 6 7 4

**Answer: b)**

**3).** Step IV : don't like listen I bad jokes to

5 6 7 3 4 1 2

listen bad jokes like to I don't

7 4 1 6 2 3 5

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The above step is Step II. But as we see step VII is the same as the input. So Step IX will be the same as Step II.

**Answer: b)**

**4).** Step II: dos cruk me nam ram jam sam

7 4 1 6 2 3 5

Since step VIII will be the same as Step I. Hence

Step VIII: cruk me ram dos jam sam nam

4 1 2 7 3 5 6

**Answer: e)**

**5).** It is obvious from chart (digital representation)

**Answer: a)**

**Questions (6 - 10):**

Word arrangement machine first arranges words having first letter vowel in alphabetical order, after that words having first letter consonent will be arranged in alphabetical order. Alternatively the numbers are choosen such that – greatest, lowest, 2nd greatest, 2nd lowest and so on.

**6).** Step II: after 89 she 38 wins 11 olympic 22 the 7

Step III: after 89 olympic she 38 wins 11 22 the 7

Step IV: after 89 olympic 7 she 38 wins 11 22 the

Step V: after 89 olympic 7 she 38 the wins 11 22

**Answer: c)**

**7). Answer: b)**

**8).** Input: elephant 17 free open 41 27 danger 15

Step I: elephant 41 17 free open 27 danger 15

Step II: elephant 41 open 17 free 27 danger 15

Step III: elephant 41 open 15 17 free 27 danger

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Step IV: elephant 41 open 15 danger 17 free 27

Step V: elephant 41 open 15 danger 27 17 free

Step VI: elephant 41 open 15 danger 27 free 17

**Answer: c)**

**9). Answer: d)**

**10). Answer: b)**

**Directions (1-5): Study the following information carefully to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement:

**Input:** all 25 next call English 35 long over 42 jug under 39

**Step I:** call next English 35 long over 42 jug under 39 all 25

**Step II:** call jug next long over 42 under 39 all 25 English 35

**Step III:** call jug long next under 39 call 25 English 35 over 42

**Step IV:** call jug long next all 25 English 35 over 42 under 39

And step is the last step of the above input. As per the rules followed in the above step, find out the approximate step for given input.

**Input:** power turn copper every 22 order 34 flower kite inter 29 aptitude 41 hope

**1).** What is the position of 'order' in step II?

a) Fifth from the left
b) Sixth from the left
c) Eighth from the right
d) Ninth from the right
e) None of these

**2).** Which step would be the following output?

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Copper flower hope power turn order 34 kite aptitude 41 every 22 inter 29

a) II
b) III
c) V
d) There is no such step
e) None of these

**3).** How many step will be required to complete arrangement of the above input?

a) Five
b) Six
c) Four
d) Seven
e) None of these

**4).** Which of the following words numbers would be at the eighth position from the right end in the last step?

a) 32
b) order
c) 41
d) Aptitude
e) None of these

**5).** How many elements are there between '34' and 'inter' in step III?

a) One
b) three
c) four
d) none
e) none of these

**Directions (6-10): study the following information carefully to answer the given questions.**

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A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement:

**Input:** done with 41 17 one 13 front 24
**Step I:** with done 41 17 one 13 front 24
**Step II:** with 13 done 41 17 one front 24
**Step III:** with 13 one done 41 17 front 24
**Step IV:** with 13 one 41 done 17 front 24
**Step V:** with 13 one 41 front done 17 24
**Step VI:** with 13 one 41 front 24 done 17

And step VI is the last step of the above input. As per the rules followed in the above step, find out the approximate step for given input.

**Input:** daughter female 45 16 painter 23 elder grand 22 42

**6).** Which step number is the following output?
Painter 22 grand 23 female daughter 45 16 elder 42

a) III
b) IV
c) VI
d) V
e) None of these

**7).** How many steps will be required to complete the given rearrangement?

a) six
b) seven
c) eight
d) nine
e) none of these

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8). Which of the following represents the first two and the last two elements in the last step?

a) Painter, 22 and elder, 42
b) Painter, 22 and daughter, 45
c) Grand, 23 and daughter, 45
d) Female, 42 and elder, 16
e) None of these

9). Which of the following elements is fifth from the left in step V?

a) female
b) 23
c) Daughter
d) 42
e) None of these

10). How many elements are there between 42 and 45 in step VII?

a) One
b) Two
c) Three
d) None
e) None of these

Answers:

1). a) 2). b) 3). c) 4). d) 5). e) 6). d) 7). c) 8). b) 9). a) 10). b)

Solutions:

Questions (1-5):

In the rearrangements, the words starting with consonants are arranged in alphabetical order from left to right, and the words starting with vowels and followed by a number are arranged in alphabetical order from right to left along with the number in each step.

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**Input:** power turn copper every 22 order 34 flower kite inter 29 aptitude 41 hope

**Step I:** copper power turn every 22 order 34 flower kite inter 29 hope aptitude 41

**Step II:** copper flower power turn order 34 kite inter 29 aptitude 41 every 22

**Step III:** copper flower hope power turn order 34 kite aptitude 41 every 22 inter 29

**Step IV:** copper flower hope kite power turn aptitude 41 every 22 inter 29 order 34

1. Answer: a)
2. Answer: b)
3. Answer: c)
4. Answer: d)
5. Answer: e)

Question (6-10):

In the rearrangement, the words are arranged in reverse alphabetical order and the numbers are arranged in the ascending order of their digit – sum in alternate steps.

**Input:** daughter female 45 16 painter 23 elder grand 22 42

**Step I.** painter daughter female 45 16 23 elder grand 22 42

**Step II**. Painter 22 daughter female 45 16 23 elder grand 42

**Step III.** Painter 22 grand daughter female 45 16 23 elder 42

**Step IV.** Painter 22 grand 23 daughter female 45 16 elder 42

**Step V.** Painter 22 grand 23 female daughter 45 16 elder 42

**Step VI.** Painter 22 grand 23 female 42 daughter 45 16 elder

**Step VII.** Painter 22 grand 23 female 42 elder daughter 45 16

**Step VIII.** Painter 22 grand 23 female 42 elder 16 daughter 45

6. Answer d)
7. Answer c)
8. Answer b)
9. Answer a)
10. Answer b)

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**Directions (Q.1-5): Study the following information to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of an input and rearrangement. (All the numbers are two-digit numbers.)

**Input:** goat 70 99 jump nor 80 fox 78 72 bids sit 75

**Step I:** bids goat 70 jump nor 80 fox 78 72 sit 75 99

**Step II:** fox bids goat 70 jump nor 78 72 sit 75 99 80

**Step III:** goat fox bids 70 jump nor 72 sit 75 99 80 78

**Step IV:** jump goat fox bids 70 nor 72 sit 75 99 80 78

**Step V:** nor jump goat fox bids 70 sit 99 80 78 75 72

**Step VI:** sit nor jump goat fox bids 99 80 78 75 72 70

And Step VI is the last step of the above input.

As per the rules followed in the above steps, find out in each of the following questions, the appropriate step for the given input.

**Input:** 10 get 89 41 ace bed done 45 nor 73 60 made

1).How many steps will be required to complete the rearrangement?

a) Six
b) Nine
c) Eight
d) Seven
e) None of these

2).Which of the following represents the position of '73' in Step V?

a) Fifth from the right
b) Fourth from the right
c) Sixth from the left
d) Fifth from the left
e) None of these

3).Which word/number would be at the seventh position from the left in the third step?

a) 60

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b) get
c) 41
d) 45
e) None of these

4).Which step number is the following output?
Get done bed ace 10 41 nor made 89 73 60 45

a) Step III
b) Step I
c) Step II
d) Step IV
e) Step V

5).Which will be the second step?

a) ace 10 get 41 bed done 45 not 73 60 made 89
b) 10 get 89 41 ace bed done 45 nor 73 69 made
c) bed ace 10 get 41 done 45 nor 60 made 89 73
d) get done bed ace 10 41 nor made 89 73 60 45
e) None of these

**Directions (Q.6-10): Study the following information carefully to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input:** have 19 sum 28 96 48 luck nice 78 rope 99 yes
**Step I:** luck 28 have 19 sum 96 48 nice 78 rope 99 yes
**Step II:** nice 48 luck 28 have 19 sum 96 78 rope 99 yes
**Step III:** rope 78 nice 48 luck 28 have 19 sum 96 99 yes
**Step IV:** sum 96 rope 78 nice 48 luck 28 have 19 99 yes
**Step V:** yes 99 sum 96 rope 78 nice 48 luck 28 have 19

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And Step V is the last step of the above input. As per the rules in the above steps, find out in each of the following questions the steps for the input given below:

**Input:** 78 centre 2031 tomorrow position 45 52 what 60 with 28 help each

6).How many steps will be required to complete the arrangement of the above input?

a) Six
b) Four
c) Three
d) Seven
e) More than seven

7).Which step number would be the following output?

position 45 help 31 each 28 centre 20 78 tomorrow 52 what 60 with

a) V
b) IV
c) III
d) VI
e) None of these

8).What will be the position of 'what' in Step V?

a) 5th from right
b) 8th from left
c) 12th from left
d) 10th from right
e) None of these

9).Which of the following steps would be the last step but one?

a) VII
b) V
c) IV
d) VI
e) None of these

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10).Which word/number would be at the seventh position from the right end in Step III?

a) 20
b) 78
c) tomorrow
d) position
e) None of these

Answers:

1). a) 2). b) 3). d) 4). d) 5). c) 6). d) 7). b) 8). c) 9). d) 10). c)

Explanations:

Directions(1-5): The machine rearranges words and numbers in such a way that words are arranged in alphabetical order from left side while numbers are arranged in descending order from right side in each step.

Input: 10 get 89 41 ace bed done 45 nor 73 60 made

Step I: ace 10 get 41 bed done 45 nor 73 60 made 89

Step II: bed ace 10 get 41 done 45 nor 60 made 89 73

Step III: done bed ace 10 get 41 45 nor made 89 73 60

Step IV: get done bed ace 10 41 nor made 89 73 60 45

Step V: made get done bed ace 10 nor 89 73 60 45 41

Step VI: nor made get done bed ace 89 73 60 45 41 10

1). Answer: a)

2). Answer: b)

3). Answer: d)

4). Answer: d)

5). Answer: c)

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**Directions (6-10):** In every step a word and a number are arranged on the left end, pushing the rest of the line rightward. The word that comes first in the alphabetic order gets arranged first. Similarly, the smallest number is arranged first. If already arranged (as seen from input to Step I in the given illustration), we move to the next word in alphabetical order and the next larger number. This goes on until the rightward shifting leads to the following final arrangement of words and numbers at alternate positions – words in reverse alphabetical order, numbers in descending order

**Input:** 78 centre 20 31 tomorrow position 45 52 what 60 with 28 help each

**Step I:** centre 20 78 31 tomorrow position 45 52 what 60 with 28 help each

**Step II:** each 28 centre 20 78 31 tomorrow position 45 52 what 60 with help

**Step III:** help 31 each 28 centre 20 78 tomorrow position 45 52 what 60 with

**Step IV:** position 45 help 31 each 28 centre 20 78 tomorrow 52 what 60 with

**Step V:** tomorrow 52 position 45 help 31 each 28 centre 20 78 what 60 with

**Step VI:** what 60 tomorrow 52 position 45 help 31 each 28 centre 20 78 with

**Step VII:** with 78 what 60 tomorrow 52 position 45 help 31 each 28 centre 20

**1). Answer: d)**

**2). Answer: b)**

**3). Answer: c)**

**4). Answer: d)**

**5). Answer: c)**

**Directions (Q.1-5): Study the following information carefully to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement:

**Input:** 25 cool dear 16 20 near open 38 33 bad ice 18

**Step I:** 18 25 cool dear 20 near open 38 33 bad ice 16

**Step II:** bad 18 25 dear 20 near open 38 33 ice 16 cool

**Step III:** 25 bad 18 dear near open 38 33 ice 16 cool 20

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**Step IV:** dear 25 bad 18 near open 38 33 16 cool 20 ice

**Step V:** 38 dear 25 bad 18 near open 16 cool 20 ice 33

**Step VI:** near 38 dear 25 bad 18 16 cool 20 ice 33 open

And Step VI is the last step of the above input. As per the rules followed in the above steps, find out the appropriate step for the given input.

**Input:** bold 44 south 37 35 he east 54 16 22 town city

**1).** Which of the following elements is fourth from the right in Step III?

a) 16
b) 35
c) east
d) town
e) None of these

**2).** Which of the following steps would be the last step but one?

a) Step V
b) Step VIII
c) Step VII
d) Step VI
e) None of thee

**3).** What will be the position of 'south' from the left end in Step V?

a) Seventh
b) Fifth
c) Sixth
d) Third
e) None of these

**4).** What is the position of 'city' in the last step?

a) Sixth from the left
b) Second from the left
c) Fourth from the right

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d) Fifth from the right
e) None of these

**5).** How many elements are there between '22' and 'town' in Step IV?

a) Four
b) Two
c) Three
d) None
e) None of these

**Directions (Q.6-11): Study the given information and answer the question.**

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangements. (All the numbers are two-digit numbers.)

**Input:** initiators 32 67 of 40 the company 21 are 18 96 humble
**Step I:** 21 initiators 32 67 of 40 the company are 96 humble 18
**Step II:** company 21 initiators 32 67 of 40 the 96 humble 18 are 32
**Step III:** 40 company 21 initiators 67 of the 96 humble 18 are 32
**Step IV:** initiators 40 company 21 67 of the 96 18 are 32 humble
**Step V:** 96 initiators 40 company 21 of the 18 are 32 humble 67
**Step VI:** the 96 initiators 40 company 21 18 are 32 humble 67 of

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the gives steps, find out the appropriate steps for the given input.

**Input:** parenting 16 36 and raising 4 children 21 is 89 very 95 demanding 72 job 65

**6).** In which step are the elements '95 job 16 and' found in the same order?

a) Fourth
b) Fifth
c) The given order of elements is not found in any step
d) Second

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e) Third

7). What is the position of '72' from the right end in the fourth step?

a) Sixth
b) Nine
c) Eight
d) Seventh
e) Fifth

8). Which elements is fifth to the left of the element which to tenth from the left end of the third step?

a) raising
b) job
c) 72
d) is
e) parenting

9). How many steps will be required to complete the given arrangement based on the given input?

a) Six
b) Eight
c) Ten
d) Seven
e) Nine

10). Which element is exactly between 'Parenting' and 'Raising' in the second step of the given arrangement?

a) 36
b) 95
c) 21
d) 44
e) 16

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11). Which of the following is the third last of the arrangement based on the given input?

a) 72 parenting 44 is 21 children raising 89 very 95 and 16 demanding 36 job 65
b) 72 44 21 parenting is raising children 89 very 95 and job demanding 16 36 65
c) Parenting 72 is 44 children 21 raising 89 very 95 16 and 36 demanding 65 job
d) Parenting is 72 44 children raising 21 89 very 95 16 and 36 65 demanding job
e) Parenting job is demanding children raising 89 very 95 16 and 36 21 44 65 72

Answers:

1). d) 2). a) 3). c) 4). d) 5). c) 6). b) 7). d) 8). a) 9). b) 10). a) 11).c)

Solution:

Directions (1-5):

The machine rearranges two numbers and two words in each alternate step. The lowest number comes at the right and the second lowest number at left. For words: the words are arranged in alphabetical order – first word comes on the left and the next comes on the right. This goes on till the arrangement completes.

Input: bold 44 south 37 35 he east 54 16 22 town city

Step I. 22 bold 44 south 37 35 he east 54 town city 16

Step II. bold 22 44 south 37 35 he east 54 town 16 city.

Step III. 37 bold 22 44 south he east 54 town 16 city 35

Step IV: east 37 bold 22 44 south 54 town 16 city 35 he

Step V: 54 east 37 bold 22 south town 16 city 35 he 44

Step VI: south 54 east 37 bold 22 16 city 35 he 44 town

1). Answer: d)

2). Answer: a)

3). Answer: c)

4). Answer: d)

5). Answer: c)

Directions (6-11):

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Here comes a new kind of arrangement. Understand it carefully. Two numbers and two words get arranged in alternate steps-the numbers in ascending order and the words in alphabetical order. But how? In Step I the smallest number goes on the right end and the second smallest on the left end. In Step II the first word in alphabetical order goes on the right end and the second on the left end. Again, in Step III the third smallest number goes on the right end and the fourth smallest on the left end. Similarly with words in Step IV. This goes on till all the numbers and words have been thus arranged.

**Input:** parenting 16 36 and raising 44 children 21 is 89 very 95 demanding 72 job 65

**Step I:** 21 parenting 36 and raising 44 children is 89 very demanding 72 job 65 16

**Step II:** children 21 parenting 36 raising 44 is 89 very 95 demanding 72 job 65 16 and

**Step III:** 44 children 21 parenting raising is 89 very 95 demanding 72 job 65 16 and 36

**Step IV:** is 44 children 21 parenting raising 89 very 95 72 job 16 and 36 demanding

**Step V:** 72 IS 44 children 21 parenting raising 89 very 95 job 16 and 36 demanding 65

**Step VI:** parenting 72 is 44 children 21 raising 89 very 95 16 and 36 demanding 65 job

**Step VII:** 95 parenting 72 is 44 children 21 raising very 16 and 36 and 36 demanding 65 job 89

**Step VIII:** very 95 parenting 72 is 44 children 21 16 and 36 demanding 65 job 89 raising

**6). Answer: b)**

**7). Answer: d)**

**8).** Fifth to the left of tenth from the left ie, (10-5) = 5$^{th}$ from the left is 'raising' in Step III

**Answer: a)**

**9). Answer: b)**

**10). Answer: a)**

**11).** Third last step is Step VI

**Answer: c)**

**Directions(01-05): Study the following information carefully to answer the given questions.**

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A word-and-number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The Following is an illustration of an input and its rearrangement.

**Input:** Hike 35 29 rate interest 43 fixed 46

**Step I:** 46 hike 35 29 rate interest 43 fixed

**Step II:** Fixed 46 hike 35 29 rate interest 43

**Step III:** 43 fixed 46 hike 35 29 rate interest

**Step IV:** hike 43 fixed 46 35 29 rate interest

**Step V:** 35 hike 43 fixed 46 29 rate interest

**Step VI:** interest 35 hike 43 fixed 46 29 rate

**Step VII:** 29 interest 35 hike 43 fixed 46 rate

**Step VIII:** rate 29 interest 35 hike 43 fixed 46

And Step VIII is the last step of the above input. As per the rules followed in the above steps, find out the appropriate steps for the given input.

**Input:** investment 49 ceiling 55 36 saving unchanged 47 percentage 64

1). Which step number is the following output?

49 investment 55 ceiling 64 36 saving unchanged 47 percentage

a) III
b) V
c) VI
d) VII
e) None of these

Show/Hide Answer

2). Which of the following is the fifth element to the right of '55' in Step III?

a) 36
b) Saving
c) Unchanged
d) 47
e) None of these

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Show/Hide Answer

3). How many elements are there between '64' and '47' in Step IV?

a) One
b) Two
c) Three
d) Four
e) None of these

Show/Hide Answer

4). Which of the following represents the first two and the last two element in the second last step?

a) 55, ceiling; and 47, percentage
b) Percentage, 49; and unchanged, 47
c) 36, saving; and 64 unchanged
d) Unchanged, 36; and ceiling, 64
e) None of these

Show/Hide Answer

5). How many steps will be required to complete the given rearrangement?

a) Seven
b) Eight
c) Nine
d) Ten
e) None of these

Show/Hide Answer

**Directions (06-10): Study the following information carefully and answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

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**Input:** shop 17 table 20 53 oven desk 39

**Step I:** 17 shop table 20 53 oven desk 39

**Step II:** 17 table shop 20 53 oven desk 39

**Step III:** 17 table 20 shop 53 oven desk 39

**Step IV:** 17 table 20 shop 39 53 oven desk

**Step V:** 17 table 20 shop 39 oven 53 desk

And step V is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions that appropriate step for the given input.

6). Step II of an input is : 15 yes 62 51 48 talk now gone

Which of the following will be step VI?

a) 15 yes 48 talk 51 now gone 62
b) 15 yes 48 talk 51 62 now gone
c) 15 yes 48 talk 51 now 62 gone
d) There will be no such step
e) None of the above

Show/Hide Answer

7). Step III of an input is: 21 victory 30 joint 64 47 all gone

How many more steps will be required to complete the rearrangement?

a) Three
b) Four
c) Five
d) Six
e) None of these

Show/Hide Answer

8). Input : 89 bind 32 goal house 61 12 joy

How many steps will be required to complete the arrangement?

a) Four
b) Five

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c) Six
d) Seven
e) None of these
Show/Hide Answer

9). Input: save 21 43 78 them early 36 for
Which of the following steps will be the last but one?
a) VI
b) VII
c) VIII
d) V
e) None of these
Show/Hide Answer

10). Input: desire 59 63 all few 38 46 zone
How many steps will be required to complete the rearrangement?
a) Four
b) Five
c) Six
d) Seven
e) None of these
Show/Hide Answer

11). Input: win 92 task 73 59 house range 34
Which of the following will be step IV of the above input?
a) 34 win 59 task 73 range 92 house
b) 34 win 92 59 task 73 house range
c) 34 win 92 task 73 59 house range
d) There will be no such step
e) None of the above
Show/Hide Answer

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Answers:

1). b) 2). a) 3). d) 4). c) 5). d) 6). c) 7). e) 8). c) 9). e) 10). b) 11). e)

Check Here the Explanation for the above Reasoning Questions:

In the rearrangement one number and one word are arranged in each alternate step. Numbers are arranged in descending order and words are arranged in alphabetical order on the left and the rest of the line shifts rightward.

**Input :** Investment 49 ceiling 55 36 saving unchanged 47 percentage 64

**Step I.** 64 investment 49 ceiling 55 36 saving unchanged 47 percentage

**Step II.** Ceiling 64 investment 49 55 36 saving unchanged 47 percentage

**Step III.** 55 ceiling 64 investment 49 36 saving unchanged 47 percentage

**Step IV.** Investment 55 ceiling 64 49 36 saving unchanged 47 percentage

**Step V.** 49 investment 55 ceiling 64 49 36 saving unchanged 47 percentage

**Step VI.** Percentage 49 investment 55 ceiling 64 36 saving unchanged 47

**Step VII.** 47 percentage 49 investment 55 ceiling 64 36 saving unchanged

**Step VIII.** Saving 47 percentage 49 investment 55 ceiling 64 36 unchanged

**Step IX.** 36 saving 47 percentage 49 investment 55 ceiling 64 unchanged

**Step X.** unchanged 36 saving 47 percentage 49 investment 55 ceiling 64

1). **Answer: b)**

2). **Answer: a)**

3). **Answer: d)**

4). **Answer: c)**

5). **Answer: d)**

**Direction (06-11):**

6).

Step II: 15 yes 62 51 48 talk now gone

Step III: 15 yes 48 62 51 talk now gone

Step IV: 15 yes 48 talk 62 51 now gone

Step V: 5 yes 48 talk 51 62 now gone

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Step VI: 15 yes 48 talk 51 now 62 gone

**Answer: c)**

7).

Step III: 21 victory 30 joint 64 47 all gone

Step IV: 21 victory 30 joint 47 64 all gone

Step V: 21 victory 30 joint 47 gone 64 all

So, step V is the last step. Hence, two steps will be required.

**Answer: e)**

8).

Input: 89 bind 32 goal house 61 12 joy

Step I: 12 89 bind 32 goal house 61 joy

Step II: 12 joy 89 bind 32 goal house 61

Step III: 12 joy 32 89 bind goal house 61

Step IV: 12 joy 32 house 89 bind goal 61

Step V: 12 joy 32 house 61 89 bind goal

Step VI: 12 joy 32 house 61 goal 89 bind

Step VI is the last step. So, to complete the arrangement, six steps will be required.

**Answer: c)**

9).

Input: save 21 43 78 them early 36 for

Step I: 21 save 43 78 them early 36 for

Step II: 21 them save 43 78 early 36 for

Step III: 21 them 36 save 43 78 early for

Step IV: 21 them 36 save 43 for 78 early

Step IV is the last step and from last step first one is step IV.

**Answer: e)**

10).

Input: desire 59 63 all few 38 46 zone

Step I: 38 desire 59 63 all few 46 zone

Step II: 38 zone desire 59 63 all few 46

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Step III: 38 zone 46 desire 59 63 all few

Step IV: 38 zone 46 few desire 59 63 all

Step V: 38 zone 46 few 59 desire 63 all

So, the last step is step V.

**Answer: b)**

11).

Input: win 92 task 73 59 house range 34

Step I: 34 win 92 task 73 59 house range

Step II: 34 win 59 92 task 73 house range

Step III: 34 win 59 task 92 73 house range

Step IV: 34 win 59 task 73 92 house range

**Answer: e)**

**Direction (01-05) : Study the following information to answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of an input and rearrangement.

**Input:** mandate awareness 8 4 2 possibility 9 on 6 venn 11 strike 7 European

**Step I:** awareness 9 mandate 8 4 2 possibility on 6 venn 11 strike 7 European

**Step II:** awareness 9 European 8 mandate 4 2 possibility on 6 venn 11 strike 7

**Step III:** awareness 9 European 8 mandate 7 4 2 possibility on 6 venn 11 strike

**Step IV:** awareness 9 European 8 mandate 7 on 2 4 possibility 6 venn 11 strike

**Step V:** awareness 9 European 8 mandate 7 on 2 possibility 11 4 6 venn strike

**Step VI:** awareness 9 European 8 mandate 7 on 2 possibility 11 strike 6 4 venn

**Step VII:** awareness 9 European 8 mandate 7 on 2 possibility 11 strike 6 venn 4

Step VII is the last step. As per rules followed in above steps, find out in each of the following questions the appropriate step for the input given below.

**Input:** investment on 7 6 foreign direct 5 8 10 allow projects 2 9 important

1). Which of the following will be the step IV of the rearrangement?

a) allow 5 direct 6 foreign 7 investment on 8 10 projects 2 9 important

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b) allow 5 direct 6 foreign 7 important 9 investment on 8 10 projects 2
c) allow 5 direct 6 foreign 7 important 9 investment 10 on 8 projects 2
d) allow 5 direct 6 investment on 7 foreign 8 10 projects 2 9 important
e) None of these
Show/Hide Answer

2). Which of the following will be the last step of the rearrangement?

a) IV
b) VI
c) VII
d) V
e) None of these
Show/Hide Answer

3). In step IV, if, in a certain way, 'important' is related to 'foreign' and '9' is related to '7', which of the following would '8' be related to, following the same pattern?

a) investment
b) 9
c) on
d) 6
e) None of these
Show/Hide Answer

4). Which of the following is second to the right of the one that is 7th from the right end in step IV?

a) investment
b) 8
c) 9
d) on
e) None of these
Show/Hide Answer

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5). What will be the position of 'foreign' in step V?

a) Fifth from the right end
b) Ninth from the right end
c) Sixth from the left end
d) Sixth from the right end
e) None of these

Show/Hide Answer

**Direction(06-10):** Study the following information carefully and answer the given questions.

A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a particular rule. The following is an illustration of the Input and its rearrangement.

**Input:** tree 96 23 under 48 busy 37 own 62 axe
**Step I:** 23 tree 96 under 48 busy 37 own 62 axe
**Step II:** 23 37 tree 96 under 48 busy own 62 axe
**Step III:** 23 37 96 tree under 48 busy own 62 axe
**Step IV:** 23 37 96 62 tree under 48 busy own axe
**Step V:** 23 37 96 62 48 tree under busy own axe
**Step VI:** 23 37 96 62 48 under tree busy own axe
**Step VII:** 23 37 96 62 48 under own tree busy axe
**Step VIII:** 23 37 96 62 48 under own axe tree busy
**Step IX:** 23 37 96 62 48 under own axe busy tree
**Step IX**: is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the input given below.

**Input:** bank 24 interest 17 51 42 summer hot 68 33 earn

6). Which of the following would be the last step of the arrangement?

a) VII

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b) VIII
c) IX
d) X
e) None of these
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7). In step IV, which of the following numbers/words would be at 7th position from the left?

a) 24
b) bank
c) 42
d) interest
e) None of these
Show/Hide Answer

8). Which step number would be the following output?
17 33 51 68 42 24 interest bank summer hot earn

a) VI
b) VII
c) V
d) VIII
e) There will be no such step
Show/Hide Answer

9). In step VI of the rearrangement, if '68' is related to 'summer' in a certain way, which of the following would '42' be related to, following the same pattern?

a) interest
b) 51
c) summer
d) hot
e) None of these
Show/Hide Answer

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10). Which of the following would be the second-last step of the rearrangement?

a) 17 33 51 42 68 24 earn interest hot summer bank
b) 17 33 51 24 42 68 interest earn bank hot summer
c) 17 33 51 68 42 24 interest earn bank summer hot
d) 17 33 51 68 42 24 earn interest bank summer hot
e) None of these

Show/Hide Answer

**Answers:**

**1). b) 2). c) 3). a) 4). d) 5). e) 6). c) 7). d) 8). b) 9). d) 10). c)**

**Check Here the Explanation for above Reasoning Input Output Questions:**

**Direction(01-05):**The machine rearranges one word and one number in each step. The word that comes first in alphabetical order is placed first and is followed by the number equal to the total number of alphabets in the word.

**Input:** investment on 7 6 foreign direct 5 8 10 allow projects 2 9 important

**Step I:** allow 5 investment on 7 6 foreign direct 8 10 projects 2 9 important

**Step II:** allow 5 direct 6 investment on 7 foreign 8 10 projects 2 9 important

**Step III:** allow 5 direct 6 foreign 7 investment on 8 10 projects 2 9 important

**Step IV:** allow 5 direct 6 foreign 7 important 9 investment on 8 10 projects 2

**Step V:** allow 5 direct 6 foreign 7 important 9 investment 10 on 8 projects 2

**Step VI:** allow 5 direct 6 foreign 7 important 9 investment 10 on 2 8 projects

**Step VII:** allow 5 direct 6 foreign 7 important 9 investment 10 on 2 projects 8

1).

**Answer: b)**

2).

**Answer: c)**

3).

**Answer: a)**

4).

**Answer: d)**

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5).

**Answer: e)**

**Direction (06-10):** The arrangement machine rearranges one word/ number in each step. It rearranges odd numbers first in ascending order and then even numbers in descending order. It rearranges words starting with vowels in descending order and finally words starting with consonants in ascending order.

**Input:** bank 24 interest 17 51 42 summer hot 68 33 earn
**Step I:** 17 bank 24 interest 51 42 summer hot 68 33 earn
**Step II:** 17 33 bank 24 interest 51 42 summer hot 68 earn
**Step III:**17 33 51 bank 24 interest 42 summer hot 68 earn
**Step IV:** 17 33 51 68 bank 24 interest 42 summer hot earn
**Step V:** 17 33 51 68 42 bank 24 interest summer hot earn
**Step VI:** 17 33 51 68 42 24 bank interest summer hot earn
**Step VII:** 17 33 51 68 42 24 interest bank summer hot earn
**Step VIII:** 17 33 51 68 42 24 interest earn bank summer hot
**Step IX:** 17 33 51 68 42 24 interest earn bank hot summer

6).

**Answer: c)**

7). Step IV: 17 33 51 68 bank 24 interest 42 summer hot earn

**Answer: d)**

8).

**Answer: b)**

9). Step VI: 17 33 51 68 42 24 bank interest summer hot earn

**Answer: d)**

10.

**Answer: c)**

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**Directions (Questions. 01-05): Study the following information carefully and answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of the input and its rearrangement:

**Input:** 36 for 49 with 72 53 true just
**Step I:** 72 36 for 49 with 53 true just
**Step II:** 72 36 49 with 53 true just for
**Step III:** 72 53 36 49 with true just for
**Step IV:** 72 53 36 49 with true for just
**Step V:** 72 53 49 36 with true for just
**Step VI:** 72 53 49 36 with for just true
**Step VII:** 72 53 49 36 for just true with

Step VII is the last step of the rearrangement of the above input. As per the rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

**Input:** 21 date 42 name 73 queen 37 easy 54 jar

1). What is the position of 'name' in Step VIII?

a) Sixth from the left end
b) First from the right end
c) Fifth from the right end
d) Seventh from the left end
e) None of these

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2).which of the following is seventh from the right in step V?

a) 21
b) name
c) 42
d) Queen

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e) None of these
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3).How many steps are required to complete this arrangement?

a) seven
b) eight
c) nine
d) ten
e) None of these
Show/Hide Answer

4).what is the position of '37' in step VII?

a) Third from the right end
b) Eighth from the left end
c) Sixth from the right end
d) Fourth from the left end
e) None of these
Show/Hide Answer

5). How many words/numbers are there between '21' and 'jar' in step IV?

a) two
b) three
c) four
d) five
e) None of these
Show/Hide Answer

**Directions (questions 06 – 11): Study the given information and answer the following questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and its rearrangement:

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**Input:** bag new 15 12 20 ask ball 22 figure 25

**Step I:** 12 15 bag new 20 ask ball 22 figure 25

**Step II:** 12 15 ask bag new 20 ball 22 figure 25

**Step III:** 12 15 ask bag 20 22 new ball figure 25

**Step IV:** 12 15 ask bag 20 22 ball figure new 25

**Step V:** 12 15 ask bag 20 22 ball figure 25 new

Step V is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the following input.

**Input:** 46 16 professor male 31 correct 33 35 39 female doctor 42 study

6). Which element is third to the right of 'female' in step V?

a) 35
b) professor
c) study
d) 42
e) None of these

Show/Hide Answer

7). How many steps will be required to complete the arrangement of the given input?

a) five
b) six
c) seven
d) eight
e) None of these

Show/Hide Answer

8).which of the following is the third element from the left end of step III?

a) 35
b) 46
c) correct
d) doctor

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e) none of these
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9). what is the position of 'male' in the final step?

a) 7th from the left
b) 2nd from the right
c) 8th from the left
d) 5th from the right
e) None of these
Show/Hide Answer

10). Which step number is the following output?

16 31 correct doctor 33 35 female male 39 42 46 professor study

a) Step V
b) Step VI
c) Step VII
d) There is no such step
e) None of these
Show/Hide Answer

11). Which of the following steps is the last step but one?

a) Step III
b) Step V
c) Step VI
d) Step IV
e) None of these
Show/Hide Answer

Answers:

1). b) 2). a) 3). c) 4). d) 5). c) 6). d) 7). b) 8). c) 9). a) 10). a) 11). b)

Check below the detailed explanation for the above Reasoning Questions:

Questions (01-05):

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In the rearrangement, the numbers are arranged in descending order from left to right in each alternate step. Words are arranged in alphabetical order on the right end in each alternate step.

**Input:** 21 date 42 name 73 queen 37 easy 54 jar

**Step I:** 73 21 date 42 name queen 37 easy 54 jar

**Step II:** 73 21 42 name queen 37 easy 54 jar date

**Step III:** 73 54 21 42 name queen 37 easy jar date

**Step IV:** 73 54 21 42 name queen 37 jar date easy

**Step V:** 73 54 42 21 name queen 37 jar date easy

**Step VI:** 73 54 42 21 name queen 37 date easy jar

**Step VII:** 73 54 42 37 21 name queen date easy jar

**Step VIII:** 73 54 42 37 21 queen date easy jar name

**Step IX:** 73 54 42 37 21 date easy jar name queen

1). **Answer is: b**

2). **Answer is: a**

3). **Answer is: c**

4). **Answer is: d**

5). **Answer is: c**

**Questions (06-11)**:

The machine rearranges the numbers and words in such a manner that the numbers are arranged in each alternate step in ascending order while words are also arranged in each alternate step in alphabetical order. In each alternate step two numbers and two words are arranged.

**Input:** 46 16 professor male 31 correct 33 35 39 female doctor 42 study

**Step I:** 16 31 46 professor male correct 33 35 39 female doctor 42 study

**Step II:** 16 31 correct doctor 46 professor male 33 35 39 female 42 study

**Step III:** 16 31 correct doctor 33 35 46 professor male 39 female 42 study

**Step IV:** 16 31 correct doctor 33 35 female male 46 professor 39 42 study

**Step V:** 16 31 correct doctor 33 35 female male 39 42 46 professor study

**Step VI:** 16 31 correct doctor 33 35 female male 39 42 professor study 46

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6). Answer is: d

7). Answer is: b

8). Answer is: c

9). Answer is: a

10). Answer is: a

11). Answer is: b

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# Chapter 15
# Input-Output

## Introduction

In input-output problems you are asked to imagine that there is some kind of computer or a word-processing machine and this machine performs some operations on a given input. These operations are performed repeatedly as per a pre-fixed pattern or rule and subsequently we have different output in different steps. Look at the examples given below:

**Ex. 1:**

| | | | | |
|---|---|---|---|---|
| **Input:** | sherry | quart | pint | bar |
| **Step I:** | quart | sherry | pint | bar |
| **Step II:** | quart | sherry | bar | pint |
| **Step III:** | sherry | quart | bar | pint |
| **Step IV:** | sherry | quart | pint | bar |
| **Step V:** | quart | sherry | pint | bar |
| **Step VI:** | quart | sherry | bar | pint |

and so on.

**Explanations**:

Here, two operations are being performed.

**Operation I**:

In the first operation, machine operates on the input on a prefixed rule where the first two words are interchanged and the remaining two words are left untouched. Thus we get the first output (**Step I**).

**Operation II**:

Suppose that the rule this time is to interchange the last two words and leaving the first two words interchanged. Then, according to this rule our input will be the first output and we get second output (**Step II**).

Now, suppose that the machine is programmed to perform **operation I** and **operation II** alternately. If the machine goes on then for the third output, the input will be the second output and the operation performed will be operation I, ie leaving the last two words unchanged and interchanging the first two. Thus, we get third output (**Step III**). Obviously the next step will be consisting of operation II and it will be performed on third output. In this, as already mentioned, we will leave the first two words unchanged and interchange the last two words. Thus, we get fourth output (**Step IV**).

If the machine went on, the sequence would be generated as given above.

Now, look at the example given below:

**Ex. 2:**

| | | | | |
|---|---|---|---|---|
| **Input:** | sherry | quart | pint | bar |
| **Step I:** | bar | sherry | quart | pint |
| **Step II:** | bar | pint | sherry | quart |
| **Step III:** | bar | pint | quart | sherry |

**Step III** is the last step and the machine stops after this step.

**Explanation:**

In this example, the machine does operation on this input as given below:

*It scans the words given, it then looks for the word that comes first in the dictionary and puts that word in the first place.*

Here, "bar" is alphabetically the first word, therefore, it is put in the first place. Remaining words are pushed to the right without changing their order. The machine went on with this logic and subsequently we have step I, step II and step III. Please note that here the third output is arranged in correct alphabetical order and therefore this is the last step and the machine stops after this step.

## Basic Types of Questions

On the basis of the above two examples, we are in a position to discuss at least two basic types of questions that are usually asked in the various competitive exams.

**(1) Shifting:** In this type of questions, we usually *shift* the given words (or numbers) of the given input as per a fixed pattern.

**In Ex 1, we have seen it already.** In Ex 1, we had the first two words shifting their places in operation I and then the last two words shifting their places in operation II. This was an example of shifting.

**(2) Arranging:** In this type of questions, the words or the numbers are arranged as per a fixed *order*. This order can be an alphabetical order in case of words; it can be an increasing or decreasing order in case of numbers. ***Note that whereas shifting goes on endlessly; arranging ends as soon as the order intended is achieved.***

**An example of arranging is Ex 2.** In this we saw that the given input was arranged alphabetically in subsequent steps.

## Identification of the Type of Problem

The moment you get a question on input-output you should first identify the basic type. This is an important step and you should not take more than five seconds for this.

### *(i) Check for arrangement first:*

First of all you should try to check if there is any arrangement. If arrangement is there, the words would be continuously arranged in an alphabetical order. If the input is consisting of number then the numbers would be continuously arranged in an increasing or decreasing order.

**Tip to check of arrangement:** *If either the first or the last word (or number) of all the steps (excluding input) remains unchanged then it is (almost) certain that it is an arrangement problem.*

See the **Ex. 2** above. The first word "bar" of all the three steps remains unchanged.

### *(ii) Check for shifting next:*

If the chances of arrangement have been ruled out, then you should check if shifting is taking place. Just look at the first two-three steps. Do you see that words (or numbers) from a particular position are going to a fixed

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particular position? Is this being repeated. If yes then it is a problem of shifting. Look at the **Ex. 1** above.

Now, let us see how to solve problems based on 'shifting' and 'arrangement' one by one.

## Shifting

*Shifting* means an operation where the words (or numbers) of a given step are "shifted" from their place to a different place as per a pre-fixed pattern or rule. We can solve input problems based on 'shifting' with the help of **'Reference Charts'**.

### Method of Reference Charts

This method consists of replacing the words (or number) given in the input by digits 1, 2, 3, ..... etc and then drawing a chart on the basis of their shiftings. Here, I am giving a step-by-step approach for solving questions based on "Shifting" using method of reference charts.

### Step A: Determine whether it is 1-step or 2-step or 3-step case.

We know that one or more than one shifting operations are performed alternately by the same machine. For example, in **Ex. 1** above two operations are performed alternately by the input-output machine.

When we have a **single** operation going on repeatedly it is called **1-step** shifting, when we have two operations it is called **2-step** shifting and when we have three operations going on, it is called **3-step** shifting.

For example, consider the following:

**Ex.3(a): Input:** Ram was here only
**Step I:** was Ram here only
**Step II:** Ram was here only
**Step III:** Was Ram here only

**Explanations:**

This is a case of **1-step shifting**. This is because in going from Input to Step I only the first two words are being interchanged.(Call it **Operation One**). And the same operation is being performed all the time.

**Ex.3(b): Input:** Ram was here only
**Step II:** was Ram here only
**Step II:** was Ram only here
**Step III:** Ram was only here
**Step IV:** Ram was here only

**Explanations:**

This is a case of **2-Step shifting**. This is because in going from Input to Step I only the first two words interchange (Call it **Operation One**) while, in going from Step I to Step II only the last two words interchange. (Call it **Operation Two**). These two operations are being performed alternately hence it is a 2-step case.

**Ex.3(c): Input:** Ram was here only
**Step II:** was Ram here only
**Step II:** was Ram only here
**Step III:** Here Ram only was
**Step IV:** Ram here only was
**Step V:** Ram here was only
**Step VI:** only here was Ram

**Explanations:**

This is a case of **3-Step shifting**. This is because in going from Input to Step I only the first two letters interchange (Call it **Operation One**); in going from Step I to Step II the last two letters interchange (Call it Operation Two) and in going from Step II to Step III first and last words interchange (Call it **Operation Three**). Thus, three operations are being performed one after another and hence it is a 3-type case.

When a problem is given to us it is extremely important that we identify if it is a 1-step or 2-step of 3-step type of shifting.

If you look at **Ex.3(a)** you will notice that in a 1-step type shifting the same operation takes place over and over again. Thus the change in going from Input to Step I is the same as the change in going from Step I to Step II and so on. But in case of a 2-Step type shifting **[See Ex.3(b)]** two operations take place alternately. This means that the change in going from Input to Step I is different from the change in going from Step I to Step II. But the change from Input to Step I is the same as the change from Step II to Step III while the change from Step I to Step II is same as the change from Step III to Step IV. Similarly, in a 3-Step type shifting the change in going from Input to Step I is different from the change from Step I to Step II and from Step II to Step III. There, change from Input to Step I is same as the change from Step III to Step IV; change from Step I to Step II is same as the change from Step IV to Step V and the change from Step II to Step III is same as the change from Step V to Step VI.

For our convenience, we use numerals for steps as given below:

0 in place of input
1 in place of Step I
2 in place of Step II
3 in place of Step III and so on.

Again, sometimes we shall write a long phrase like *"the change in going from Input to Step I"*, in a shorter way as **"0 to 1"**. For example, we can write **"2 to 3"** which will mean *"the change in going from Step II to Step III"*. For quick determination of whether it is 1-step or 2-step or 3-step case follow the **quicker approach** given below:

if 0 to 1 = 1 to 2; it is 1- step case
if 0 to 1 ≠ 1 to 2 but 0 to 1 = 2 to 3; it is a 2-step case
if 0 to 1 ≠ 1 to 2 and 0 to 1 ≠ 2 to 3 but 0 to 1 = 3 to 4; it is a 3-step case.

### Step B: Determine how many steps should be drawn in the reference chart.

For this we use **golden rule of reduction.**

Using our terminology, we can say that:

**(i)** In a 1-Step case
**0** to **1** = **1** to **2** = **2** to **3** .....

**(ii)** In a 2-Step case:
(a) **0** to **1** = **2** to **3** = **4** to **5** ..... and
(b) **1** to **2** = **3** to **4** = **5** to **6** .....

**(iii)** In a 3-Step case
(a) **0** to **1** = **3** to **4** = **6** to **7** = ..... and
(b) **1** to **2** = **4** to **5** = **7** to **8** = ..... and
(c) **2** to **3** = **5** to **6** = **8** to **9** = .....

all these can be rewritten as:

**(i)** In a 1-step case
**0** to **1** = (0 + 1 × 1) to (1 + 1 × 1) = (0 + 2 × 1) to (1 + 2 × 1)

**(ii)** In a 2-step case
**(a)** **0** to **1** = (0 + 1 × 2) to (1 + 1 × 2) = (0 + 2 × 2) to (1 + 2 × 2)
**(b)** **1** to **2** = (1 + 2 × 1) to (2 + 2 × 1) = (1 + 2 × 2) to (2 + 2 × 2)

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**(iii)** In a 3-step case
- **(a)** **0** to **1** = (0 + 1 × 3) to (1 + 1 × 3) = (0 + 2 × 3) to (1 + 2 × 3)
- **(b)** **1** to **2** = (1 + 1 × 3) to (2 + 1 × 3) = (1 + 2 × 3) to (2 + 2 × 3)
- **(c)** **2** to **3** = (2 + 1 × 3) to (3 + 1 × 3) = (2 + 2 × 3) to (3 + 2 × 3)

If we analyse the above we find that:

**(a)** *In case of a 1-Step; the same change can be rewritten by adding or subtracting any multiple of 1.* Thus; if it is a 1-Step case; we can have;

**Ex. 4:** (a) **0** to **4** = (0 + 1× 1) to (4 + 1 × 1) = **1** to **5** = (0 + 2× 1) to (4 + 2 × 1) = **2** to **6** etc.
(b) **13** to **9** = (13 - 9 × 1) to (9 - 9 × 1) = **4** to **0** etc.

**(b)** *In case of a 2-Step, the change can be rewritten by adding or subtracting any multiple of 2.* Thus, if it is a 2-Step case we can have

**Ex. 5:** (a) **0** to **4** = (0 + 1 × 2) to (4 + 1 × 2)
= **2** to **6**
= (0 + 2 × 2) to (4 + 2 × 2)
= **4** to **8**
(b) **13** to **9** = (13 - 4 × 2) to (9 - 4 × 2)
= **5** to **1** etc.

**(c)** *In case of a 3-Step, the change can be rewritten by adding or subtracting any multiple of 3.* Thus, if it is a 3-Step case, we can have

**Ex. 6:** (a) **0** to **4** = (0 + 1 × 3) to (4 + 1 × 3)
= **3** to **7**
= (0 + 2 × 3) to (4 + 2 × 3)
= **6** to **10** .....
(b) **13** to **9** = (13 - 3 × 3) to (9 - 3 × 3)
= **4** to **0** ..... etc.

The above mentioned rules given in italics are called golden rule of reduction. We can put that in words more concisely:

### Golden Rule of Reduction

**The change between any two steps in a 1-Step (or 2-Step or 3-Step) case can be substituted by a change between two new steps that can be obtained by adding or subtracting any multiple of 1 (or 2 in a 2-Step case, or 3 in a 3-Step case) from the given steps.**

### Use of Golden Rule of Reduction

Suppose that you are given a problem and in one of the questions you are given **Step 20** and you have to find **step-23**. In our terminology you can write it as **"find 20 to 23"**. Suppose that you have already analysed the given pattern and found out that it is a 2-step type case. Now, by using our golden rule you can write 20 to 23 = (20 – 10 × 2) to (23 – 10 × 2) = 0 to 3. In words it means that 'step 20 to step 23' would involve the same changes as 'input to step 3'.

**Step C:** Replace words of given input by 1,2,3.....and draw a reference chart. Complete the chart by following the movement of the words. Draw the chart for as many steps as determined in step B.

**Step D:** After completing Step A to Step C, go on to respective questions.
In input-output problems on shifting there are essentially two types of problems. They are
(i) Given a Step Number and its content to find the content of another step number.
(ii) Given a step number and its content to find the step number for another given content.

For better understanding of **Step D**, see the illustrative example given below:

**Ex. 1:** A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:
**Input:** I have long awaited for your reply
**Step I:** reply long have awaited for your I
**Step II:** long reply awaited have for I your
**Step III:** your awaited reply have for I long
**Step IV:** awaited your have reply for long I
and so on till step VII.

**1.** Given the following
**Step IV:** I know you will not reply back.
What step will be the following arrangement?
**Arrangement:** You back I reply not will know
1) X 2) XI 3) IX
4) VIII 5) None of these

**2.** If step VI of a given input be 'Have I done anything wrong with you', what would be the input?
1) you done with have wrong I anything
2) you done with have wrong anything I
3) done you have with wrong anything I
4) I have you with wrong anything done
5) None of these

**3.** If step XII of a given input be 'It is impossible to do everything right' what is the step XVII of that input?
1) is it everything right do impossible to
2) It is right everything do to impossible
3) It is everything right do impossible to
4) to everything is right do impossible it
5) None of these

**4.** Given the input, what would be step V of the input?
**Input:** Only you can do all thing right.
1) you only right thing all do can
2) only you thing right all can do
3) only thing you right all do can
4) thing only you right all do can
5) None of these

**5.** If step IV of a given input be 'It is last serious warning to you', what is step I of that input?
1) you last is to serious it warning
2) last you is to warning it serious
3) serious last to it warning is you
4) warning to serious it is you last
5) None of these

**Soln.:**

**Step A:** We see that 0 to 1 ≠ 1 to 2 and 0 to 1 = 2 to 3. Hence it is a 2-step type shifting.

**Step B:** We need to draw upto 7 step.
In Q. 1, Step IV is given and we have to find which step is a given arrangement (In such cases take the answer choice giving the largest range, here it is XI.)
Q. 2, Q. 3, Q. 4 and Q. 5 can be written as **6** to **0**, **12** to **17**, **0** to 5 and **4** to **0**, respectively. Out of these, golden rule of reduction can be applied in (Q. 1) and (Q. 3). The whole scheme can be written down as:
**Q. 1: 4** to **11*** = (4 - 2 × 2) to (11 - 2 × 2) = **0** to **7**
**Q. 2: 6** to **0**
**Q. 3: 12** to **17** = (12 - 6 × 2) - (17 - 6 × 2) = **0** to **5**
**Q. 4: 0** to **5**
**Q. 5: 4** to **0**

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* We take 11 as (4 to 11) gives the largest range in the given answer choices.

Now, we see that in our reduced forms the largest step involved is **7** or step VII. Hence, we need to draw our reference chart upto Step 7.

**Step C:** For our problem, we replace the word of the input by 1, 2, 3, 4 ..... We have, I = 1, have = 2, long = 3, awaited = 4, for = 5, your = 6, reply = 7. Now, we draw a reference chart of *upto **7** steps:*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Step I:** | 7 | 3 | 2 | 4 | 5 | 6 | 1 |
| **Step II:** | 3 | 7 | 4 | 2 | 5 | 1 | 6 |
| **Step III:** | 6 | 4 | 7 | 2 | 5 | 1 | 3 |
| **Step IV:** | 4 | 6 | 2 | 7 | 5 | 3 | 1 |
| **Step V:** | 1 | 2 | 6 | 7 | 5 | 3 | 4 |
| **Step VI:** | 2 | 1 | 7 | 6 | 5 | 4 | 3 |
| **Step VII:** | 3 | 7 | 1 | 6 | 5 | 4 | 2 |

**Explanation:** The given problem itself gives us upto Step IV. Remaining steps are drawn by copying from appropriate changes. Since, it is a 2-Step type case **4** to **5** = **2** to **3**. Hence, Step V is drawn from Step IV in same way as Step III is drawn from Step II. Similarly, Step VI is drawn from Step V in the same way as Step IV is drawn from Step III.

**Step D:** Once we complete Step A to Step C; in other words, once we complete our reference chart we will move on to the questions.

**(i) and (ii):** Now, there are two types of questions possible. In type one, you are given the content of a step and you have to find the content of another step. Q2, Q3, Q4 and Q5 are examples of this type of questions. In the second type of questions, you are given the content of one step and the content of another unknown step and you have to find this unknown step-number, Q1 is an example of it.

**(ii): Q2, 3, 4, 5:** Now, we will follow the following strategy to solve these questions. In questions of the first type, we will first see if any reduction is possible by our golden rule. Then, we will take the given step and to its words we will assign the same digits as they appear for that step in the reference chart. Now, we will find out the sequence of these digits for the step of which we have to find the content. Finally, we resupply the words for the given digits.

**Q. 2:** For example, Q. 2 is:
**6** to **0**, (given 6 = "Have I done anything wrong with you)" Now, Step 6 in our reference chart is, 2 1 7 6 5 4 3. So, we assign: Have = 2, I = 1, done = 7, anything = 6, wrong = 5, with = 4, you = 3. Now, Input in our reference chart is = 1 2 3 4 5 6 7. Resupplying the words, we get:
Input = I have you with wrong anything done. **Correct answer: 4**

**Q. 3**: Q. 3 is:
**12** to **17**, (given, 12 = "It is impossible to do everything right") By, golden rule of reduction **12** to **17** = **0** to **5**.
Now, **0** = 1, 2, 3, 4, 5, 6, 7. So we assign: If = 1, is = 2, impossible = 3, to = 4, do = 5, everything = 6, right = 7. Now, from our reference chart,Step V = 1 2 6 7 5 3 4. Resupplying the words, we get: It is everything right do impossible to. **Correct Answer: 1**

**Q. 4:** Q. 4 is:
**0** to **5**, (given **0** = Only you can do all thing right) From reference chart: **0** = 1 2 3 4 5 6 7. So, we assign: only = 1, you = 2, can =3, do = 4, all = 5, things = 6, right = 7. Now, from reference chart : 5 = 1 2 6 7 5 3 4. Resupplying the words, we get. Only you thing right all can do. **Correct answer: 2**

**Q. 5:** Q. 5 asks:
**4** to **1**; (given, 4 = It is last serious warning to you) From the reference chart, **4** = 4 6 2 7 5 3 1. Hence we assign:
It = 4, is = 6, last = 2, serious = 7, warning = 5, to = 3, you = 1. Now, from reference chart: **1** = 7 3 2 4 5 6 1. Thus, the correct answer is 'serious to last it warning is you'. **Correct answer : 5**

**Step E(ii):** The second type of questions could be where we are given the content of one step and the content of another unknown step would be given. We will have to find this unknown step. Q. 1 is an example of such type.
For solving questions of this type, **we will take that step from the answer choices which, coupled with the given step gives you the biggest range.** See the following illustration to understand this:
(Q. 1) Known step = **4.** Choices are: **10**, **11**, **9**, **8**. We take **11** as this given largest range. Now, **4** to **11** = **0** to 7 by golden rule. So, we assume "I know you will not reply back" to be input rather than Step IV. Now, digit pattern for input is 1 2 3 4 5 6 7. So, we take I = 1, know = 2, you = 3, will = 4, not = 5, reply = 6, back = 7. Now, the given arrangement 'you back I reply not will know becomes' 3 7 1 6 5 4 2. We see in the reference chart that it corresponds to Step 7. This means that *you back I reply not will know* is step 7 *if I know you will not reply back* was input.
But, *I known you will not reply back is* step 4 (0 +4).
Hence, *you back .... not will know is 4 + 7 = step 11.*

## Arrangement

In this type of questions, the words or the numbers are arranged as per a fixed **order**. This order can be an alphabetical order in case of words, it can be an increasing or decreasing order in case of numbers. Note that whereas shifting goes on endlessly; arranging ends as soon as the order intended is achieved.

### Possible Ways of Arrangements

Whenever you come across an arrangement problem please try to understand the logic on which the machine works. For this ask yourself the following questions:

#### (i) Increasing order or decreasing order?

Arrangement can be of words or it can be of numbers. Words are arranged alphabetically while numbers are arranged in their increasing or decreasing order of magnitude. Since in a alphabetical arrangement of words, *a* comes before *b* which comes before *c* in the dictionary, a word starting with *a* would come before a word starting with *b* which would come before a word starting with *c*. Thus, if you have three words: *cat*, *ass*, and *bat*; *cat* is

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alphabetically the third *ass* is first while *bat* is alphabetically the second word in the dictionary. Therefore, if we have (*ass*, *bat*, *cat*) this is an alphabetically *increasing* sequence while (*cat*, *bat*, *ass*) is alphabetically *decreasing* sequence. Similarly (5, 7, 9) is an *increasing* sequence while (9, 7, 5) is a *decreasing* sequence. Now, we can have a machine that arranges in an increasing sequence or we can have one that arranges in a decreasing sequence.

Now, look at the examples given below:

**Ex. 1:** **Input:** Star players don't abandon
**Step I:** abandon star players don't
**Step II:** abandon don't star players
... and so on.
(The above is an example of arranging in an *increasing* sequence.)

**Ex. 2:** **Input:** don't players star abandon
**Step I:** star don't players abandon
**Step II:** Star players don't abandon
[This is an example of *decreasing* sequence because alphabetically last word has occupied first place while *abandon* (which is alphabetically first) occupied last place.]

**Ex. 3:** **Input:** 15 19 11 17
**Step I:** 11 15 19 17
**Step II:** 11 15 17 19
(Above is an example of arranging in an *increasing* order)

**Ex. 4:** **Input:** 15 19 11 17
**Step I:** 19 15 11 17
**Step II:** 19 17 15 11
(Above is an example of arranging in a *decreasing* order.)

### (ii) Fillings from left side only or right side only or left-right alternately?

**(a) Left-side only:** If we are arranging in increasing order, we can bring the first word of the dictionary in the first place. This would be step I. After that, in step II, we would bring second word of dictionary in the second place. And so on. In this way, in succeeding steps, the first, second, third places from **left**... are filled by alphabetically first, second, third words.

**Ex. 5:** **Input:** Star players don't abandon
**Step I:** abandon star players don't
**Step II:** abandon don't star players
... and so on

**(b) Right-side only:** Sometimes the same task of arranging (in say, increasing order) can be achieved by putting the last word of the dictionary in the last place. This would be step I. Then we can put the second-last word of the dictionary at the second place from the right. And so on. In this way, in succeeding steps, the first, second, third steps from **right**, are filled by alphabetically last, second last, third last word.

**Ex. 6:** **Input:** Star players don't abandon
**Step I:** players don't abandon star
**Step II:** don't abandon players star
... and so on

**(c) Left-right alternate:** Sometimes, the same task of arranging (in say, increasing order) can be achieved by putting the first word at first place, then alphabetically last word at last place, then alphabetically second word at second place from left... and so on. In other words, words are positioned from the left and from the right alternately. See the following two examples:

**Ex. 7:** **Input:** Star players don't abandon
**Step I:** abandon star players don't
**Step II:** abandon players don't star
**Step III:** abandon don't players star

**Ex. 8:** **Input:** star players don't abandon
**Step I:** players don't abandon star
**Step II:** abandon players don't star
**Step III:** abandon don't players star

### (iii) Filling by interchange or by push?

In each successive step, the machine does same ordering. This is done by putting one word (or number) in its rightful place, at a time. When a word is put at its rightful place, what happens to the word that was previously occupying that place? There are two answers. The earlier word either quietly shifts (see Ex. 9, 10) or it interchanges position with its replacing word (Ex. 11). In the former case it looks as if the new word has simply jumped from its place, occupied its new and due place and given the remaining words a *push*, in the second case it is a case of *interchange*.

**Ex. 9:** **Input:** star plyers don't abandon
**Step II:** abandon star players don't
**Step II:** abandon don't star players
[*abandon* is alphabetically first word so it comes to the first place. Other words are *pushed* to the right. Then *'don't'* comes to the second place and the remaining two players are *pushed* to the right.].

**Ex. 10:** **Input:** star players don't abandon
**Step I:** players don't abandon star
**Step II:** don't abandon players star
[Arrangement is in increasing order, fillings are "right-only". So, alphabetically last word *star* comes to last place other words are shifted to the left. Again, *players* comes to the second last place and remaining words are shifted to the left.]

**Ex. 11:** **Input:** star players don't abandon
**Step III:** abandon players don't star
**Step III:** abandon don't players star
[*abandon* is brought to the first place, and the word that was previously at first place *interchanges* positions with *abandon*. In the next step, we bring *don't* at the second place. Earlier, *players* was at second place. So, *don't* and *players* **interchange** places.]

Once you have been able to answer these questions, you have understood the reasoning and that means you can solve the questions easily. Now, look at the illustrative examples given below:

## Interchange Type

**Ex. 1:** A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:

**Input:** gone was the excitement of Friday polls
**Step I:** excitement was the gone of Friday polls
**Step II:** excitement Friday the gone of was polls
**Step III:** excitement Friday gone the of was polls
**Step IV:** excitement Friday gone of the was polls
**Step V:** excitement Friday gone of polls was the
**Step VI:** excitement Friday gone of polls the was

Since the words are already arranged, the machine stops after this step. Otherwise the machine may carry

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on its logic until the words get fully arranged. Study the logic and answer the questions that follow.

**1.** What will be the Step III for the following input?
**Input:** It had swept the four seats last year
1) four had it last seats swept the year
2) four had it last swept seats the year
3) four had it the swept seats last year
4) four had swept the it seats last year
5) None of these

**2.** **Input:** For some this loss is a message
For the above input which step will the following arrangement be?
**Arrangement:** a for is loss message some this
1) Step IV 2) Step V
3) Step VI 4) Can't say
5) None of these

**3.** **Input:** We were over with counting at noon.
Which of the following will be the penultimate step for the above input?
1) Step IV 2) Step V
3) Step VI 4) Can't say
5) None of these

**4.** **Input:** How much can we check and prune
What will be the fifth step for the above input?
1) and much can we check how prune
2) and can check how much we prune
3) and can check how much prune we
4) and can much we check how prune
5) None of these

**5.** What will be the second step for the following input?
**Input:** He has been seen wearing a loose shirt
1) a has been seen wearing he loose shirt
2) a been has seen wearing he loose shirt
3) a been has he wearing seen loose shirt
4) a been has he loose seen wearing shirt
5) None of these

**Soln:** Looking at the problem, we understand that the logic of arrangement is following:
- increasing order
- left-side only
- interchange

(*Increasing* order because words are being arranged in alphabetically increasing order. Left-side only because fillings are done only from left. *Interchange* because replacements are done by interchanging positions. For example, in step I, *excitement* comes at first place by interchanging positions with *gone*. In second step, *Friday* comes at second place and interchanges places with *was* ....)
Now, let us come to the questions:

**1.** In step I: *four* interchanges places with *it*. In step II, *had* is alrady at 2nd place, so *it* replaces *swept* to come to third place. In 3rd step, last replaces the to come to 4th place. **Correct choice: 2.**

**2.** We have the following logic:
For some this loss is a message
**Step I:** a some this loss is for message
**Step II:** a for this loss is some message
**Step III:** a for is loss this some message
**Step IV:** a for is loss message some this
[**Note:** In step III, *loss* is alphabetically 4th and it has already occupied 4th place. Therefore, in step IV we put *message* (which is alphabetically the fifth) at fifth place].

**3.** For such type of questions, we have following rule;

> *"If there are n words (or numbers) then the machine will take at most (n – 1) steps to arrange the words totally".*

Here there are 7 words in *we were over with counting at noon.* So, it will take at most (7 – 1 =) 6 steps to arrange it totally. Hence, penultimate (seconmd last) step would be either step V or less. This eliminates choices 3 and 4. Now, we have the following logic.
we were over with counting at noon
**Step I:** at were over with counting we noon
**Step II:** at counting over with were we over
**Step III:** at counting noon with were we over
**Step IV:** at counting noon over were we with
**Step V:** at counting noon over we were with
Hence the correct choice is (2).

**4.** For such questions we have following rule:

> *"In an arrangement scheme, in step number x (say) at least x words (or numbers) must have occupied their due positons".*

**Quicker Method:** By the above rule, Step V should have at least first five words in place which are *and*, *can*, *check*, *how* and *much*.
This eliminates choices 1 and 4. Now, *prune* must be in the end because this place is not touched in any of the previous operations. **Correct choice: 2.**

**5.** **Quicker Method:** By the above rule, at least first two words should be alphabetically the first two, ie *a* and *been*. This eliminates choice, 1. Now, *a* interchanges with *he* in step I and in second step this scheme is not disturbed. so, *he* should be where *a* was originally, ie at 6th place. **Correct choice: 2.**

## Push Type

**Ex. 2: Study the following information to answer the given questions:**

A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement:

**Input:** As if it on an Zoo figure of in at
**Step I:** an As if it on Zoo figure Of in at
**Step II:** an As at if it on Zoo figure Of in
**Step III:** an As at figure if it on Zoo Of in
**Step IV:** an As at figure if in it on Zoo Of
**Step V:** an As at figure if in it Of on Zoo
(and Step V is the last step for this Input).

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

**1.** Which of the following will be step II for the given input?
**Input:** am ace all if Is
1) ace all am Is if 2) all am ace if Is
3) Is if am ace all 4) ace all am if Is
5) None of these

**2.** **Input:** you are at fault on this
Which of the following steps would be — are at fault on you this?
1) I 2) II 3) III
4) IV 5) V

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**3.** **Input:** Him and His either or her
Which step will be the last step for this input?
1) I 2) II 3) III
4) IV 5) V

**4.** Step IV was like this — an apple at cot was red on one side
Which of the following will definitely be the input?
1) was cot red an on at one apple side
2) cot an at apple was red on one side
3) apple at an cot was red on one side
4) Cannot be determined
5) None of these

**Soln:** You can yourself analyse that the logic is:
- increasing order
- left only
- push

(*Increasing* order, because the words are being arranged in increasing order. *Left only* because fillings are only from left side. *Push* because a word fills its due position not by interchanging with any other word, but it flies to its new place and pushes the remaining sequence to the right. For example, in step I, *an* takes the first place and the entire remaining sequence is pushed to the right, in step II, *At* takes the third place and entire remaining sequence is pushed to the right. In step II,*as* is already at second place so *at* is placed at third place here.).

**1.** For such question we have the following rule (for push type only):

> *"To find the content of step x for a given input mentally lift the first x alphabetical words and just put them before the remaining words. [In increasing order sequence. In case of decreasing order sequence, we will have to lift the last x words]."*

Here input is *am ace all if Is*. Since you have to find step II, lift first two words. Alphabetically, first two words are: *ace* and *all*. When we mentally lift them the remaining sequence is: *am if Is*. So, we put *ace* and *all* before *am if Is* and get *ace all am if Is*. **Correct choice is 4.**

**2.** **Input** is *you are at fault on this*. Now, in *are at fault on you this*, **four** words (*are*, *at*, *fault* and *on*) are taken off one by one and placed before *you*. **Correct choice 4.**

**3.** For such question we have the following rule: (For push-type only):

> *"To find the total number of steps needed to arrange a sequence attach digits 1,2,3.....etc to words as per their alphabetical rank. Now, ask yourself this question: how many of these digits should I mentally remove so that the remaining digits will be in order? The answer to your question will be your required answer".*

Alphabetically, *and* is 1st, *either* is 2nd, *her* is 3rd, *him* is 4th, *his* is 5th, *or* is 6th. So, we replace

him and his either or her
4 1 5 2 6 3

If we mentally remove, 1 we get 45263. This is not in order.
If we mentally remove 1 and 2. we get 4563. This is not in order. If we mentally remove 1, 2, 3; we get 456. This is in order. So, we need to mentally remove 3 words to get the remaining words in order. So, our correct answer is 3 steps. Choice: (3).

**4.** Always remember following rule:

> *"In arrangement problems, the contents of an earlier step can never be determined with certainly".*

Hence, correct choice is (4)
**Note:** Student must note that **Ex. 1** is based on **interchange** while **Ex. 2** is based on **push**.

## Some Rules for Quick Answers of Arrangement-Problems

Here, some rules have been given for reaching answers quickly or at least for eliminating the incorrect answer as seen in the above two illustrative examples.

**Rule 1:** *In an arrangement scheme, in step number x (say) at least x words (or numbers) must have occupied thier due positions.*

**Rule 2:** *In arrangement problems, the contents of an* ***earlier*** *step can never be determined with certainty.*

**Rule 3:** *If there are n words (or numbers) then the machine will take at most (n - 1) steps to arrange the words totally.*

**Rule 4:** (For *push* type only) *To find the content of step x for a given input mentally lift the first x alphabetical words and just put them before the remaining words.* [In *increasing* order sequence. In case of *decreasing* order sequence, we will have to lift the *last* x words]

**Rule 5:** (For *push* type only):*To find the total number of steps needed to arrange a sequene attach digits 1, 2, 3... etc to words as per their alphabetical rank. Now, ask yourself this question: how many of these digits should I mentally remove so that the remaining digits will be in order? The answer to your question will be your required answer.*

**Note:** Note that rule (4) or (5) is not applicable for problems of arrangement based on interchange. It is applicable only when we have cases of push.

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## Exercise–1

**Directions (Q. 1-5): Study the following information carefully and answer the questions given below it:**

An export processing unit has a computerised machine which generates six codes to distinguish products of each of the seven batches produced in a day. The machine is fed code for the first batch of each day. Based on that, the machine generates 6 codes by rearrangement of words for subsequent batches. Following is an illustration of generation of codes for some batches of a day.

Day's **first** batch — who nut cream page for table.
Day's **second** batch — who for cream page nut table.
Day's **third** batch — who for page cream nut table.
Day's **fourth** batch — table for page cream nut who.
Day's **fifth** batch — page table for nut who cream.
Day's **sixth** batch — page who for nut table cream.

and so on till seventh batch. Next day based on the same rule, new set of words will be introduced as given above:

**1.** If the seventh batch of the day is 'from door no leaf glass but', which of the following would be the first three words of the code of the third batch of that day?
1) door leaf from ..... 2) door leaf but .....
3) glass leaf but ..... 4) but door no .....
5) None of these

**2.** If the code of sixth batch of the day is 'very say could man on fire', which of the following batch codes would read as 'say could very fire man on'?
1) Second 2) Third
3) Fourth 4) Fifth
5) None of these

**3.** If the code of fourth batch is 'so when clean get lemon dust', which of the following would be the code for seventh batch?
1) get dust lemon when so clean
2) clean so when lemon dust get
3) when get dust so clean lemon
4) clean dust lemon when so get
5) None of these

**4.** If the first batch code of a day is 'five gave it close to mine', which of the following will be the code for fourth batch?
1) five to it close gave mine
2) mine to close it gave five
3) five to close it gave mine
4) close five to gave mine it
5) None of these

**5.** If the code of fifth batch of a day is 'same is tea at now then', which of the following would definitely be the first code of that day?
1) tea same is now then at
2) same now tea at is then
3) now at then same tea is
4) now tea is same then at
5) None of these

**Directions (Q. 6-10): Study the following information carefully to answer the questions given below.**

In a toy exhibition, a machine processes a given input by the following rule. Participants are shown one by one till it reaches its last step. Following is an illustration of the working of this machine.

**Input:** sui me ato fe zen u no
**Step I:** fe sui me no ato zen u
**Step II:** no fe sui u me ato zen
**Step III:** u no fe zen sui me ato
**Step IV:** zen u no ato fe sui me
**Step V:** ato zen u me no fe sui
and so on.
Now attempt the questions given below.

**6.** Which of the following steps would read as 'not you only say wise yet are' for the input 'say not you are only wise yet'?
1) III 2) V 3) VI
4) VII 5) None of these

**7.** If the Step V of an input is 'so cd rom lay is nor it', which of the following would be its Step II?
1) is nor it rom lay so cd
2) nor it lay is so cd rom
3) lay so cd it rom is nor
4) Data inadequate
5) None of these

**8.** If the Step III of an input is 'lo men chi from yet as know', which of the following would be its input?
1) Data inadequate
2) from lo men know chi yet as
3) men chi yet lo as know from
4) chi as know men know from lo
5) None of these

**9.** Which of the following correctly describes the 'machine logic' in generating various steps based on the given input?
1) Each step is generated on random basis.
2) Words/letters are finally arranged in dictionary order.
3) The seventh letter interchanges with the fourth every time.
4) Data inadequate
5) None of these

**10.** What will be the step IV for the following input?
**Input:** may sen to cry if not hell
1) cry may sen to if not hell
2) if not hell to cry may sen
3) sen to if may not hell cry
4) not hell cry if may sen to
5) None of these

**Directions (Q. 11-17): Read the following information carefully and answer the questions given below:**

A famous museum issues entry passes to all its visitors for security reasons. Visitors are allowed in batches after every one hour. In a day there are six batches. A code is printed on entry pass which keeps on changing for every batch. Following is an illustration of pass-codes issued for each batch.

**Batch I:** clothes neat and clean liked are all by
**Batch II:** by clothes neat all are and clean liked
**Batch III:** liked by clothes clean and neat all are
and so on ...

**11.** If pass-code for the third batch is 'night succeed day and hard work to for', what will be the pass-code for the sixth batch?
1) work hard to for succeed night and day
2) hard work for and succeed night to day
3) work hard for to succeed night and day
4) hard work for to succeed night and day
5) None of these

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**12.** If 'visit in zoo should the we time day' is the pass-code for the fifth batch, 'zoo we the should visit day time in' will be the pass-code for which of the following batches?
1) II 2) IV 3) I
4) III 5) VI

**13.** Sanjay visited the museum in the fourth batch and was issued a pass-code 'to fast rush avoid not do very run'. What would have been the pass-code for him had he visited the museum in the second batch?
1) rush do not avoid to run very fast
2) rush not do avoid to run very fast
3) avoid rush not do to run very fast
4) Data inadequate
5) None of these

**14.** Subodh went to visit the museum in the second batch. He was issued a pass-code 'length the day equal of and night are'. However, he could not visit the museum in the second batch as he was little late. He then prefered to visit in the fifth batch. What will be the new pass-code issued to him?
1) and of are night the length equal day
2) and are of night the length equal day
3) and of are night the equal day length
4) and of are the night length day equal
5) None of these

**15.** If pass-code for the second batch is 'to confidence hard you leads work and success', what will be the pass-code for the fourth batch?
1) leads success to you hard confidence and work
2) leads success you to hard confidence and work
3) leads success to you hard confidence work and
4) leads to success you hard confidence and work
5) None of these

**16.** If the pass-code issued for the last (sixth) batch is 'and pencil by all boys used are pen', what will be the pass-code for the first batch?
1) pencil and pen are used by all boys
2) pen and pencil used are by all boys
3) pen and pencil are used by all boys
4) pencil and pen are used all by boys
5) None of these

**17.** If the pass-code for the sixth batch is 'not go the way to of out do', what will be the pass-code for the third batch?
1) of do to out go not way the
2) of to do out not go way the
3) of to go out do not way the
4) Data inadequate
5) None of these

**Directions (Q. 18-24): Read the following information carefully and answer the questions given below:**

The world famous Edward Museum in city 'X' has introduced the system of passcode for its visitors. The passcodes are generated by machine and automatically change after every one hour, during the visiting hours 11 am to 7 pm. The illustration of passcodes generated batchwise is given below:

**Passcode for batch I starting at 11 am**
things keep dust your all away from never.
**Passcode for batch II starting at 12 noon.**
all dust things your away from never keep.
**Passcode for batch III starting at 1 pm.**
away things all your from never keep dust.
**Passcode for batch IV starting at 2 pm.**
from all away your never keep dust things.
and so on upto the last batch starting at 6 pm.

**18.** If "he for went then to the shop in" is the passcode for seventh batch, "shop to the then in for went he" will be the passcode for which of the following batches?
1) First batch 2) Second batch 3) Third batch
4) Fourth batch 5) None of these

**19.** "wait not for her till go to garden" is the passcode for batch starting at 12 noon. When Sumitra visited, she was issued the passcode "garden go to her not for wait till". At what time did she visit?
1) 3 pm 2) 5 pm 3) 6 pm
4) 4 pm 5) 1 pm

**20.** Mr 'X' visited the museum at 1 pm, but was wrongly issued the passcode for 4 pm batch which was "left is the hand right to his way". What is the correct passcode that should have been issued to Mr 'X'?
1) way to hand his is the left right
2) way to his hand is the left right
3) way to his hand the is left right
4) way to his hand is the right left
5) None of these

**21.** The passcode generated for the second batch on a particular day was "fat big nice girl for it was out". What will be the passcode for the sixth batch on that day?
1) out is was girl big fat nice for
2) out was it girl big nice fat for
3) out it was girl big nice fat for
4) out it girl was big nice fat for
5) None of these

**22.** The passcode for batch starting at 2 pm was "walk slow health for good physique for men". What would be the passcode for the batch starting at 5 pm?
1) for physique good for men slow health walk
2) for good physique for men health slow walk
3) good for physique for men health slow walk
4) good physique for men for slow health walk
5) None of these

**23.** Mr Ashok visited the museum at 3 pm. The passcode he received was "at the few words all in for race". What would have been his passcode had he visited the museum at 1 pm?
1) the for words race few at all in
2) the for race words few at all in
3) for the words race few at all in
4) for the race words few at all in
5) None of these

**24.** If the passcode for fifth batch is "set all get ready for the race today", what will be the passcode for the first batch?
1) race for the ready today all get set
2) race for the today ready all get set
3) race the for ready today all get set
4) race for the ready today get all set
5) None of these

**Directions (Q. 25-29): Study the following information carefully and answer the questions given below:**

XYZ Limited Company organised an exhibition of machine tools. The exhibition was opened on all the weekdays for public. Certain passcodes were issued to the visitors as entry card. The passcode of entry card was changed every hour according to a certain rule as shown

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below. The entry time of the first batch of the visitors was 9 AM and that for the last batch was 7 PM. Each batch was allowed only one hour. The lunch time was from 1 PM to 2 PM.

**Batch I (9 AM to 10 AM)**
**Passcode:** course easy set for each year was
**Batch II (10 AM to 11 AM)**
**Passcode:** easy each course for was set year
**Batch III (11 AM to 12 Noon)**
**Passcode:** each was easy for year course set
and so on.

**25.** If the passcode for the batch entering at 12 Noon is "she the girl is clever very good", then what will be the passcode for the batch entering at 3 PM?
1) clever good is the very she girl
2) clever good the is she very girl
3) clever good the very is she girl
4) clever good very is the she girl
5) None of these

**26.** The passcode of which of the following batches will be similar to the passcode for the batch III?
1) VI 2) VII 3) VIII
4) IX 5) None of these

**27.** If the passcode for the batch III is "pin to the point is sharp not", then what will be the passcode for the batch V?
1) is not to sharp point pin the
2) is not to point sharp pin the
3) not is to sharp point pin the
4) not is to point sharp pin the
5) None of these

**28.** If the passcode for the second batch is "for the life is good change got" then the passcode for which of the following batches is "got change good is life the for"?
1) IV 2) III 3) V
4) VI 5) None of these

**29.** If the passcode for batch IV is "do how will the you job now", then what will be the passcode for batch II?
1) job will now the do you how
2) job now will the do you how
3) job will how the do you now
4) job will the now do you how
5) None of these

**Directions (Q. 30-33): Given an input, a coding machine generates pass codes for six batches every day as follows:**

**Input :** 'you should know about type of questions'
**Pass Code:**
**Batch I :** you questions should of know type about
**Batch II :** about you type questions know should of
**Batch III :** about of you should type know questions
And so on till the sixth batch.

The first batch begins work at 10.00 a.m. Each batch works for one hour. There is a rest period of one hour after the fourth batch's work is over.

**30.** If the input on a day is 'eight friends are sitting in the circle', then what will be the pass code for the batch at 3.00 p.m.?
1) the circle in friends are sitting eight
2) circle sitting are the in eight friends
3) sitting friends the are circle in eight
4) circle friends sitting eight are in the
5) None of these

**31.** Ajay was to attend the batch at 4.00 p.m. on a day with a pass code 'sentence awarded by high court was executed'. However, he was compelled to work in the batch at 12 noon on that day. What was his pass code then?
1) awarded sentence executed high by court was
2) was executed by awarded court high sentence
3) by high was sentence court awarded executed
4) high sentence awarded executed court was by
5) None of these

**32.** What will be the input on a day on which pass code for the immediate pre-rest hour batch is 'answer-sheet information your the on fill up'?
1) fill up your information on the answer-sheet
2) fill answer-sheet up the your on information
3) information your up answer-sheet on fill the
4) information up on the fill answer-sheet your
5) None of these

**33.** The pass code for the 6th batch on a day was 'mark your answer against appropriate serial number'. What was the input provided to the machine on that day?
1) number against appropriate serial answer mark your
2) number your against mark appropriate answer serial
3) number against serial appropriate answer mark your
4) your answer number mark serial appropriate against
5) None of these

**Directions (Q. 34-38): Given an input, a coding machine generates Pass Codes for six batches every day, as follows:**

**Input:** see the little squirrels jumping here and there
**Pass Codes:**
**Batch I:** jumping see here the and little there squirrels
**Batch II:** the and here little see there jumping squirrels
**Batch III :** see the there and jumping here squirrels little
**Batch IV:** and jumping there here the squirrels see little and so on.

The first batch timing is 10.00 a.m. and each batch is of one hour's duration. There is a rest period of one hour after the work for the fourth batch is over.

**34.** On a particular day, Mr. X was to begin the work in the batch at 11.00 a.m. with a pass code 'he slowly recedes to his inner apartment intellect'. However, he came late on that day and hence joined the batch at 12 noon. What was his pass code then?
1) Cannot be determined
2) his he inner slowly apartment recedes intellect to
3) to his recedes inner slowly apartment he intellect
4) to intellect recedes apartment slowly inner he his
5) None of these

**35.** If the pass code on a day for the second batch is 'are of clouds transformed they bhakti the as', what will be the pass code for the batch at 3.00 p.m. on that day?
1) the they clouds are as bhakti transformed of
2) of the bhakti clouds are as they transformed
3) clouds are bhakti as the they of transformed
4) are of as the they bhakti transformed clouds
5) None of these

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**36.** If the pass code on a day for the batch at 3.00 p.m. was 'it is only the mind that creates problems', what was the pass code for the batch at 1.00 p.m. on that day?
1) is the that problems it only mind creates
2) mind it the problems creates only is that
3) creates mind only it is the that problems
4) mind it that is the problems only creates
5) None of these

**37.** The pass code for the batch immediately before the rest hour was 'there is no permanent solution for mental problems'. What was the input for the pass code on that day?
1) mental solution problems is for permanent there no
2) mental solution permanent for is problems there no
3) is mental permanent solution there problems no for
4) is mental permanent there solution problems no for
5) None of these

**38.** On a day, the pass code for the first batch was 'nobody can help us in solving our problems'. Write the input of the day in the reverse order of its words.
1) our in help nobody can us solving problems
2) can us solving problems nobody help in our
3) our in help nobody problems solving us can
4) problems solving us can nobody help in our
5) None of these

## Exercise–2

**Directions (Q. 1-7): Study the following information to answer the questions given below:**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

**Input:** 48 245 182 26 99 542 378 297
**Step I:** 542 48 245 182 26 99 378 297
**Step II:** 542 26 48 245 182 99 378 297
**Step III:** 542 26 378 48 245 182 99 297
**Step IV:** 542 26 378 48 297 245 182 99
**Step V:** 542 26 378 48 297 99 245 182

This is the final arrangement and step V is the last step for this input.

**1.** What will the fourth step for an input whose second step is given below?
**Step:** 765 42 183 289 542 65 110 350
1) 765 42 542 350 183 289 65 110
2) 765 42 542 65 110 183 289 350
3) 765 42 542 65 183 289 110 350
4) Cannot be determined
5) None of these

**2.** What should be the third step of the following input?
**Input:** 239 123 58 361 495 37
1) 495 37 361 123 239 58
2) 495 37 58 361 123 239
3) 495 37 58 123 361 239
4) 495 37 361 239 123 58
5) None of these

**3.** How many steps will be required to get the final output from the following input?
**Input:** 39 88 162 450 386 72 29
1) Two 2) Three 3) Four
4) Six 5) None of these

**4.** What should be the last step of the following input?
**Input:** 158 279 348 28 326 236
1) 348 28 326 158 279 236
2) 348 28 326 236 158 279
3) 348 28 236 158 279 326
4) 348 28 158 326 236 279
5) None of these

**5.** If the first step of an input is "785 198 32 426 373 96 49",
then which of the following steps will be "785 32 426 49 198 373 96"?
1) Third 2) Fourth 3) Fifth
4) Second 5) None of these

**6.** Below is given the second step of an input. What will be its fourth step?
**Step II:** 298 12 128 36 212 185
1) 298 12 212 128 36 185
2) 298 12 212 36 128 185
3) 298 12 36 212 128 185
4) Cannot be determined
5) None of these

**7.** Below is given the third step of an input. What will be its second step?
**Step III:** 387 42 236 185 92 64
1) 387 42 185 236 92 64
2) 387 42 92 185 236 64
3) 387 42 185 92 236 64
4) Cannot be determined
5) None of these

**Directions (Q. 8-14): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** joy far 35 27 16 96 height star
**Step I :** 96 joy far 35 27 16 height star
**Step II :** 96 far joy 35 27 16 height star
**Step III :** 96 far 35 joy 27 16 height star
**Step IV :** 96 far 35 height joy 27 16 star
**Step V :** 96 far 35 height 27 joy 16 star

And Step V is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**8.** **Input:** organize 19 12 stable room 35 72 house
How many steps will be required to complete the arrangement?
1) Five 2) Six 3) Seven
4) Four 5) None of these

**9.** **Input:** bake never store 51 26 33 age 49
Which of the following will be step V?
1) 51 age 49 bake 33 never 26 store
2) 51 age 49 bake never store 26 33
3) 51 age bake never store 26 33 49
4) 51 bake never store 26 33 age 49
5) There will be no such step.

**10.** **Input:** always go there 39 62 47 time 24
Which of the following steps will be the last but one?

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1) VI 2) VII 3) VIII
4) IX 5) None of these

**11.** Step II of an input is : 67 ask 34 12 46 for my date
Which of the following is definitely the input?
1) 34 12 46 for my date ask 67
2) 34 12 46 for my date 67 ask
3) 12 34 67 ask 46 for my date
4) Cannot be determined
5) None of these

**12.** Step III of an input is: 84 for 56 29 17 won loss game
Which of the 'following steps will be the last?
1) VIII 2) IX 3) VII
4) V 5) None of these

**13.** Step III of an input is : 86 box 63 18 gear card 51 new
How many more steps will be required to complete the arrangement?
1) Three 2) Two 3) Four
4) Five 5) None of these

**14.** Step IV of an input is: 59 bend 46 card 14 27 win now Which of the following will be step VII?
1) 59 bend 46 card now 27 win 14
2) 59 bend 46 card 27 now win 14
3) 59 bend 46 card 27 now 14 win
4) 59 bend 46 card 27 14 win now
5) There will be no such step.

**Directions (Q. 15-21): Study the following information to answer the given questions.**

A number arrangement machine when given an input of numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

**Input:** 25 280 345 36 93 147 550
**Step I:** 550 280 345 36 93 147 25
**Step II:** 55 345 280 36 93 147 25
**Step III:** 550 345 280 147 93 36 25

This is the final arrangement and Step III is the last step for this input.

**15.** If '842 485 68 358 236 123 93' is the second step of an input, which of the following steps will be '842 485 358 236 123 68 93'?
1) Fourth 2) Fifth
3) Sixth 4) Can't be determined
5) None of these

**16.** How many steps will be required to get the final output from the following input?
**Input:** 78 293 585 740 64 132 26
1) 4 2) 5 3) 3
4) 5 5) None of these

**17.** What will be the third step for the following input?
**Input:** 113 18 48 225 462 175 288
1) 462 288 48 225 113 175 18
2) 462 288 225 175 113 48 18
3) 462 225 288 48 113 175 18
4) 462 288 225 48 113 175 18
5) None of these

**18.** If following is the first step for an input, what will be the fourth step?
**Step I:** 498 175 292 96 79 387 158
1) 498 387 292 175 158 79 96
2) 498 387 292 175 96 158 79
3) 498 387 292 175 158 96 79
4) 498 387 292 175 79 158 96
5) None of these

**19.** Following is the step II for an input. What will be the first step for the input?
**Step II:** 595 438 28 142 38 65 289
1) 595 28 438 142 38 65 289
2) 595 438 142 28 38 65 289
3) 595 28 142 438 38 65 289
4) Can't be determined
5) None of these

**20.** What will be the second step for the following input?
**Input:** 158 294 22 89 142 385 463
1) 463 385 294 22 89 142 158
2) 463 385 89 22 142 294 158
3) 463 385 22 89 142 158 294
4) 463 385 22 142 89 158 294
5) None of these

**21.** Which of the following is the last step for the following input?
**Input:** 145 227 900 49 116 243 356
1) 900 356 243 227 49 145 116
2) 900 356 243 227 145 116 49
3) 900 356 227 243 145 116 49
4) 900 356 243 227 116 145 49
5) None of these

**Directions (Q. 22-26): Study the following information to answer the given questions.**

A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of the input and the steps of rearrangement.

**Input:** going but for crept te light sir
**Step I:** crept going but for te light sir
**Step II:** crept going light but for te sir
**Step III:** crept going light but for sir te
(Step III is the last step for this input)

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

**22.** **Input:** the in car as he may me
Which of the following will be the third step for this input?
1) car the in as he may me
2) car may the as in he me
3) car as may he the in me
4) car may the in as he me
5) None of these

**23.** If the second step of an input is 'clever remand window sales batch tiger never' which of the following will be its sixth step?
1) clever remand window batch sales tiger never
2) window remand clever sales batch tiger never
3) batch never sales tiger clever remand window
4) clever remand window tiger batch sales never
5) It cannot have sixth step.

**24.** If the input is 'true se veto be nuke my like', which of the following will be the IV step?
1) like nuke true veto be se my
2) be my like se true veto nuke
3) be my se like true veto nuke
4) veto true nuke like so be my
5) Cannot be determined

**25.** **Input:** 'more fight cats cough sough acts idea'.
Which of the following steps would be the last step for this input?
1) III 2) IV 3) V
4) VI 5) VII

**26.** If the V step of an input is 'more pure soft cat not so sir at', what will be the II step?

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1) at so more pure cat not soft sir
2) more pure soft so sir cat at not
3) more pure soft cat so sir at not
4) more so sir soft pure cat at not
5) Cannot be determined

**Directions (Q. 27-31): A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** 95 is 11 my are
**StepI:** is 95 11 my are
**StepII:** is 11 95 my are
**StepIII:** is 11 my 95 are
Step III is the last step for this input.

**Now, study the logic given above and answer the questions that follow:**

**27.** **Input:** go 123 save be 39 67 let
Which among the given steps will be the last step for the given input?
1) III 2) IV 3) V
4) VI 5) None of these

**28.** **Input:** we 143 lay as 12 may 36
What is step IV for the given input?
1) as 12 we lay 36 143 may
2) as 12 we 36 143 lay may
3) as we 143 lay 12 may 36
4) may 36 12 lay 143 we as
5) None of these

**29.** If step III of an input is 'mare 1665 meat 1885 saves 20171 19199', then which of the following will definitely be the input?
1) meat saves 20171 1885 mare 1665 19199
2) mare 1885 saves meat 1665 19199 20171
3) 19199 saves mare meat 1885 1665 20171
4) Data inadequate
5) None of these

**30.** **Input:** like tea 115 1264 eat 151 gate
For the above input, which step will be the following arrangement?
**Arrangement:** eat 115 tea 151 like 1264 gate
1) VI 2) V 3) III
4) II 5) None of these

**31.** If step II of a given input is 'get 116 1250 say 1124 four 148 hire' then which of the following is step VI of the given input?
1) get 116 say 148 four 1124 hire 1250
2) get 116 say 148 1250 1124 four hire
3) get 116 say 148 four 1124 1250 hire
4) Data inadequate
5) None of these

**Directions (Q. 32-36): Study the following information carefully and answer the questions given below:**

A word arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:

**Input :** top the name good for is there
**Step I:** is top the name good for there
**Step II:** is for top the name good there
**Step III:** is for the top name good there
**Step IV:** is for the top good name there
(This is the last arrangement and step IV is the last step of this input.)

**32.** If following is the second step of an input, what will be the fourth step?
**Step II:** is to for while they were going day
1) is to day for they while were going
2) is to day for while they were going
3) is to for day while they were going
4) Can't be determined
5) None of these

**33.** If following is the third step of an input, what will be its first step?
**Step III:** no dog was first five forest dense
1) no was dog first five forest dense
2) no first was dog five forest dense
3) no dog first was forest five dense
4) Can't be determined
5) None of these

**34.** Which of the following is the third step for the following input?
**Input:** lack of a common safe in the
1) a of in the lack common safe
2) a of in lack common safe the
3) a in of lack common safe the
4) a in of the lack common safe
5) None of these

**35.** How many steps will be required to get the final output from the following input?
**Input:** where do you go out of way
1) One 2) Three 3) Four
4) Eight 5) None of these

**36.** If step I of an input is 'If there was no good man', what step would be 'if no man there was good'?
1) Second 2) Third
3) Fourth 4) Can't be determined
5) None of these

**Directions (37-41): Study the following information carefully and answer the questions given below.**

When an input line of words is given to a word arrangement machine, it rearranges them following a particular rule in each step.

**Input:** car some pour tie more tin bee goat.
**Step I:** goat car some pour tie more tin bee.
**Step II:** goat more car some pour tie tin bee.
**Step III:** goat more pour car some tie tin bee.
**Step IV:** goat more pour some car tie tin bee.
**Step V:** goat more pour some bee car tie tin
and step Vis the last output.

**37.** If the 3rd step of an input is:
bend take vide nut zeal pot car tin.
which of the following will be the last step?
1) VIth 2) Vth 3) VIIth
4) IVth 5) None of these

**38.** If the 2nd step of an input is:
coat some for die song kill bit son,
which is certainly the input?
1) for come die song kill coat bit son
2) for die come song kill coat bit son
3) for die song come kill coat bit son
4) Can't be determined
5) None of these

**39.** **Input:** door site may for you mean now goal.
Which of the following is the 3rd step of the above input?
1) door goal mean site for may now you
2) door goal mean site may for you now
3) door site goal mean may for you now
4) Can't be determined
5) None of these

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**40.** **Input:** mute deal sit cut coat day long for
Which of the following will be the 4th step?
1) coat deal mute sit cut day long for
2) coat deal long mute sit cut day for
3) coat deal long mute cut sit day for
4) coat deal long mute cut day for sit
5) None of these

**41.** **Input:** ask not feel task opt sale dark den
Which of the following will be the last step?
1) Vth 2) VIth 3) IVth
4) VIIth 5) None of these

**Directions (Q. 42-46): Read the following information carefully and answer the questions given below:**

A word-number arrangement machine, when given an input as a set of words and numbers, rearranges them following a particular rule and generates stepwise outputs till the rearrangement is complete following that rule.

Followings is an illustration of input and steps of rearrangement till the last step.

**Input:** pour ask 57 dear 39 fight 17 28
**Step I:** ask pour 57 dear 39 fight 17 28
**Step II:** ask 57 pour dear 39 fight 17 28
**Step III:** ask 57 dear pour 39 fight 17 28
**Step IV:** ask 57 dear 39 pour fight 17 28
**Step V:** ask 57 dear 39 fight pour 17 28
**Step VI:** ask 57 dear 39 fight 28 pour 17
and Step VI is the last output.

As per the rule followed in the above steps find out the answer to each of the following questions:

**42.** If step II of an input is "cut 97 38 end for 29 46 down", which of the following will be the last step?
1) V 2) IV 3) VI
4) VII 5) None of these

**43.** If the IVth step of an input is "ago 85 elite 79 exile fat 26 41", which of the following will definitely be the IInd step of the input?
1) ago 85 79 elite fat 41 26 exile
2) ago 85 exile elite 41 26 fat 79
3) ago 85 26 exile 41 elite 79 fat
4) Cannot be determined
5) None of these

**44.** If the Ist step of an input is "car 17 vas tiger 92 87 like 52", which of the following will be the IVth step?
1) car 92 like 87 tiger 52 17 vas
2) car 92 like 87 17 vas tiger 52
3) car 92 like 87 tiger 17 vas 52
4) car 92 like 17 vas tiger 87 52
5) None of these

**45.** **Input:** zeal for 49 31 high 22 track 12
Which of the following will be the IIIrd step?
1) for 49 high 31 track 22 zeal 12
2) for 49 high 31 zeal 22 track 12
3) for 49 high zeal 31 22 track 12
4) for 49 high 31 track zeal 22 12
5) None of these

**46.** **Input:** 19 feat 34 28 dog bag take 43
Which of the following steps would be "bag 43 dog 19 feat 34 28 take"?
1) IInd 2) IVth
3) Ist 4)Can't be determined
5) None of these

**Directions (Q. 47-51): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input:** sky forward 17 over 95 23 come 40
**Step I:** come sky forward 17 over 95 23 40
**Step II:** come 95 sky forward 17 over 23 40
**Step III:** come 95 forward sky 17 over 23 40
**Step IV:** come 95 forward 40 sky 17 over 23
**Step V:** come 95 forward 40 over sky 17 23
**Step VI:** come 95 forward 40 over 23 sky 17

Step VI is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, answer the following questions.

**47.** **Input:** machine hire for 19 against 85 21 46
Which of the following will be step II?
1) against 85 hire machine for 19 21 46
2) against 85 machine 19 hire for 21 46
3) against 85 machine hire for 19 21 46
4) Cannot be determined
5) None of these

**48.** **Input:** box at 20 53 62 gift now 32
Which of the following is step IV?
1) at 62 box 53 gift 32 20 now
2) at 62 box 53 gift 32 now 20
3) at 62 box 53 gift 20 now 32
4) Cannot be determined
5) None of these

**49.** **Input:** on at 33 27 42 sky mat 51
Which of the following steps will be the last?
1) VI 2) VII 3) V
4) VIII 5) None of these

**50.** Step III of an input is:
bring 63 desk 11 29 together fight 30
Which of the following steps will be the last but one?
1) VI 2) VII 3) VIII
4) V 5) None of these

**51.** Step II of an input is:
earn 72 31 46 higher goal 20 more
Which of the following is definitely the input?
1) 46 72 31 earn higher goal 20 more
2) 20 31 72 46 higher goal earn more
3) higher 20 31 72 46 goal earn more
4) Cannot be determined
5) None of these

**Directions (Q. 52-56): Read the following information carefully and answer the questions given below:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule and generates stepwise outputs till the arrangement is complete following that rule.

Following is an illustration of input and steps of rearrangement till the last step.

**Input:** tree cut 92 51 food 17 garden 32
**Step I:** cut tree 92 51 food 17 garden 32
**Step II:** cut food tree 92 51 17 garden 32
**Step III:** cut food 92 tree 51 17 garden 32
**Step IV:** cut food 92 51 tree 17 garden 32
**Step V:** cut food 92 51 garden tree 17 32
**Step VI:** cut food 92 51 garden tree 32 17
And Step VI is the last step of the input.

As per the rules followed in the above steps, find out the answer to each of the questions given below:

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**52.** Step IV of an input is:
earn more 82 63 12 31 quite new
Which of the following will definitely be **Step II** of the output?
1) earn more 12 63 82 31 quite new
2) earn more new 82 63 12 31 quite
3) earn more quite new 82 12 63 31
4) Cannot be determined
5) None of these

**53.** **Input:** bring home 42 73 15 goal 32 type
Which of the following steps will be the last?
1) V 2) VI 3) IV
4) VII 5) None of these

**54.** **Input:** bench 47 63 advance 13 29 again between
Which of the following is the step III of the output?
1) advance again 63 47 bench 13 29 between
2) advance again 63 47 bench between 13 29
3) advance again 63 47 bench between 29 13
4) Cannot be determined
5) None of these

**55.** Step II of an input is:
desk eagle 12 28 41 69 foreign land
How many more steps will be required to complete the rearrangement?
1) 4 2) 6 3) 5
4) 3 5) None of these

**56.** Step III of an input is:
again dark 83 sour 19 21 prey 39
Which of the following steps will be the last but one?
1) V 2) VI 3) VIII
4) VII 5) None of these

**Directions (Q. 57-61): Study the following information to answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers, rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement:

**Input:** wind packet 19 7 back 12 task 34
**Step I:** 34 wind packet 19 7 back 12 task
**Step II:** 34 back wind packet 19 7 12 task
**Step III:** 34 back 19 wind packet 7 12 task
**Step IV:** 34 back 19 packet wind 7 12 task
**Step V:** 34 back 19 packet 12 wind 7 task
**Step VI:** 34 back 19 packet 12 task wind 7
**Step VII:** 34 back 19 packet 12 task 7 wind
and Step VII is the last step.

As per the rules followed in the above steps, find out in the given questions the appropriate step for the given input.

**57.** **Input:** 9 13 about tariff 24 call 29 even.
Which of the following will be step IV?
1) 29 about 24 9 13 tariff call even
2) 29 about 24 call 9 13 tariff even
3) 29 about 24 call 13 9 tariff even
4) 29 about 24 call 13 even 9 tariff
5) Cannot be determined

**58.** If Step II of an input is "37 desk 34 garden 5 father victory 17", which of the following steps will be the last step?
1) Step III 2) Step V 3) Step IV
4) Step VI 5) None of these

**59.** If Step I of an input is
59 bead tenure father 38 11 ultimate 24
which of the following will be Step III?
1) 59 bead 38 tenure 11 father ultimate 24
2) 59 bead 38 11 tenure father ultimate 24
3) 59 bead 38 tenure father 11 ultimate 24
4) 59 bead 38 father tenure 11 ultimate 24
5) None of these

**60.** If the last step of an input is
41 cost 32 over 28 project 17 violet
which of the following must be the input?
1) project 32 cost over 17 41 violet 28
2) project 32 cost over 41 violet 17 28
3) project cost 32 over 41 17 violet 28
4) Cannot be determined
5) None of these

**61.** Which of the following will be the Step III of the following input?
**Input:** 24 12 entry sand butter 51 32 carry
1) 51 butter 32 24 12 entry sand carry
2) 51 butter 32 carry 24 12 entry sand
3) 51 butter 32 carry 24 entry 12 sand
4) 51 24 12 entry sand butter 32 carry
5) None of these

**Directions (Q. 62-66): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input:** 93 come home over 32 47 now 26
**Step I:** over 93 come home 32 47 now 26
**Step II:** over 26 93 come home 32 47 now
**Step III:** over 26 now 93 come home 32 47
**Step IV:** over 26 now 32 93 come home 47
**Step V:** over 26 now 32 home 93 come 47
**Step VI:** over 26 now 32 home 47 93 come
**Step VII:** over 26 now 32 home 47 come 93
and Step VII is the last step.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step.

**62.** Step II of an input is:
sky 20 90 37 begin again 11 home
Which of the following is definitely the input?
1) 20 90 37 begin again 11 home sky
2) sky 90 37 20 begin again 11 home
3) 90 20 37 begin sky again 11 home
4) Cannot be determined
5) None of these

**63.** Step III of an input is:
take 17 mind game 29 73 18 loud
How many more steps are required to complete the sequence?
1) Two 2) Three 3) Four
4) Five 5) None of these

**64.** **Input:** by now 51 32 for 91 20 me
Which of the following steps will be the last?
1) III 2) IV 3) V
4) VI 5) None of these

**65.** **Input:** fight for all 39 62 25 today 19
Which of the following will be step IV?
1) today 25 for 39 fight all 62 19
2) today 19 for 25 fight all 39 62
3) today 19 for 25 fight 39 all 62
4) Cannot be determined
5) None of these

**66.** **Input:** queen mary 79 62 17 20 green west
Which of the following steps will be the last but one?
1) VI 2) VII 3) V
4) VIII 5) None of these

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**Directions (Q. 67-71): Study the following information carefully and answer the questions given below:**

A word arrangement machine when given an input line of words rearranges it in every step following a certain rule. Following is an illustration of an input line of words and various steps of rearrangement:

**Input:** gone are take enough brought station
**Step I:** take gone are enough brought station
**Step II:** take are gone enough brought station
**Step III:** take are station gone enough brought
**Step IV:** take are station brought gone enough

And, Step IV is the last step for this input. Now find out appropriate step in each of the following questions following the above rule.

**67.** **Input:** car on star quick demand fat.
What will be the third step for this input?
1) star car quick demand on fat
2) star quick car demand on fat
3) star car demand quick on fat
4) star car quick on demand fat
5) None of these

**68.** If step III is "ultra barrack save enough party lying", which of the following would be the Input?
1) ultra enough party save barrack lying
2) ultra barrack enough party save lying
3) ultra enough barrack save party lying
4) enough ultra barrack save party lying
5) Cannot be determined

**69.** If step IV of input is 'violet for sour height journey medium', which of the following would be step II of that input?
1) violet journey height for sour medium
2) violet for sour journey height medium
3) violet for journey height sour medium
4) violet for sour height journey medium
5) Cannot be determined

**70.** If step III of an input is 'warden examination town ink garden restore', what step would be 'warden ink town garden restore examination'?
1) I 2) II 3) IV
4) V 5) None of these

**71.** **Input:** ink hurry yet for the victory
Which of the following will be the last step of the above input?
1) IIIrd 2) IVth 3) Vth
4) VIth 5) None of these

**Directions (Q. 72-76): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement.

**Input:** boundary 25 17 earlier 32 desk party 80
**Step I:** party boundary 25 17 earlier 32 desk 80
**Step II:** party 17 boundary 25 earlier 32 desk 80
**Step III:** party 17 earlier boundary 25 32 desk 80
**Step IV:** party 17 earlier 25 boundary 32 desk 80
**Step V:** party 17 earlier 25 desk 32 boundary 80
and Step V is the last step. (for this input)

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**72.** **Input:** ordinary tight 62 84 35 victory move 28
Which of the following will be step IV?
1) victory 28 ordinary 35 move 62 tight 84
2) victory 28 ordinary 35 tight 62 84 move
3) victory 28 ordinary 35 move tight 62 84
4) victory 28 ordinary tight 62 84 35 move
5) None of these

**73.** Step IV of an input is: terminal 12 sound 14 90 71 ask car. How many more steps are required to complete the rearrangement?
1) 3 2) 2 3) 1
4) 4 5) None of these

**74.** **Input:** quick buy 12 91 75 astrologer dean 32
Which of the following will be the last step?
1) Step IV 2) Step V 3) Step VI
4) Step VII 5) None of these

**75.** **Input:** below deliver 80 72 town window 25 52
Which of the following will be the last but one step?
1) Step III 2) Step IV 3) Step V
4) Step VI 5) None of these

**76.** Step III of an input is:
xerox 20 yellow space mountain 31 72 43
Which of the following is definitely Step I of that input?
1) xerox space yellow 20 mountain 31 72 43
2) xerox yellow space 20 mountain 31 72 43
3) xerox space 20 yellow mountain 32 72 43
4) Cannot be determined
5) None of these

**Directions (Q. 77-81): Study the following information carefully/and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

**Input :** now 41 28 for join 37 go 61
**Step I :** 61 now 41 28 for join 37 go
**Step II :** 61 for now 41 28 join 37 go
**Step III :** 61 for 41 now 28 join 37 go
**Step IV :** 61 for 41 go now 28 join 37
**Step V :** 61 for 41 go 37 now 28 join
**Step VI :** 61 for 41 go 37 join now 28
**Step VII :** 61 for 41 go 37 join 28 now
Step VII is the last step for this input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**77.** **Input:** when you 22 special 31 16 47 town
Which of the following steps will be the last but one?
1) IV 2) VI 3) V
4) VII 5) None of these

**78.** **Input:** chair wood 21 42 59 height bench 78
How many steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**79.** Step IV of an input is:
74 again 69 call 17 32 horse desk
Which of the following is definitely the input?
1) again call 74 69 17 32 horse desk
2) 74 call again 17 69 horse 32 desk
3) call 74 again 69 17 32 desk horse
4) Cannot be determined
5) None of these

**80.** Step III of an input is:
82 brown 74 sugar hobby lady 32 49.
Which of the following will be Step VI?
1) 82 brown 74 hobby 49 sugar lady 32

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2) 82 brown 74 hobby 49 lady sugar 32
3) 82 brown 74 hobby 49 lady 32 sugar
4) Cannot be determined
5) None of these

**81.** **Input:** goal team ask 12 92 85 42 sound
Which of the following will be Step IV?
1) 92 ask 85 goal 42 sound 12 team
2) 92 ask 85 goal 42 sound team 12
3) 92 ask 85 goal 42 team 12 sound
4) 92 ask 85 goal team 12 42 sound
5) None of these

**Directions (Q. 82-86): Study the following information carefully and answer the given questions:**

Given an input line, a coding machine rearranges the input following certain steps as explained below:

**Input** : 47 desert go 56 there often 32 12
**Step I** : 47 desert go 56 there often 32 12
**Step II** : there 47 desert go 56 often 32 12
**Step III** : there 12 often 47 desert go 56 32
**Step IV** : there 12 often 32 47 desert go 56
**Step V** : there 12 often 32 go 47 desert 56

The arrangement in Step V is the final arrangement and Step V is the last step.

In each of the following questions the rearrangement is done following the same rules as explained in the above illustration.

**82.** If the fourth step of an input is 'wonderful 22 seashore 36 48 fine 62 morning', what was the first step?
1) fine 48 wonderful 22 seashore 36 62 morning
2) fine 48 wonderful 22 36 seashore 62 morning
3) fine 48 seashore wonderful 22 36 morning 62
4) fine 48 seashore wonderful 36 22 morning 62
5) Cannot be determined

**83.** What will be the third step for the following input?
**Input:** paper common 36 51 pencil 28 test 66
1) test 28 paper pencil common 36 51 66
2) test 28 pencil 66 paper common 36 51
3) test 66 pencil paper 28 common 51 36
4) test 28 pencil paper common 36 51 66
5) None of these

**84.** If Step II of an input is 'waive 14 available time 38 46 probation 85', how many more steps will be required to complete the arrangement?
1) Three 2) Four 3) Five
4) Two 5) None of these

**85.** Which step will be the last step for the input '27 sports 48 television commentary 18 house 36'?
1) IV 2) V 3) VI
4) VII 5) None of these

**86.** What will be the fourth step of an input having first step as 'number game 54 23 always lacking 16 75'?
1) number 16 lacking 23 game always 54 75
2) number 16 lacking 23 always 54 game 75
3) number 16 lacking 23 game 54 always 75
4) Cannot be determined
5) None of these

**Directions (Q. 87-91): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input** : say dry 42 96 get 39 kite 67
**Step I** : 96 say dry 42 get 39 kite 67
**Step II** : 96 dry say 42 get 39 kite 67
**Step III** : 96 dry 39 say 42 get kite 67
**Step IV** : 96 dry 39 say 67 42 get kite
**Step V** : 96 dry 39 say 67 get 42 kite

Arrangement in Step V is the final arrangement and Step V is the last step.

You have to answer the questions by following the same rules as illustrated above.

**87.** Which step will be the last step of an input for which third step is "91 go 28 mock pet 43 lead 37"?
1) Eighth 2) Seventh
3) Sixth 4) Fifth
5) None of these

**88.** If the second step of an input is "52 at deep follow 41 16 road 32", what will be the fifth step?
1) 52 at 16 road 32 deep follow 41
2) 52 at 16 road 41 deep follow 32
3) 52 at 16 road 32 follow 41 deep
4) There will be no such step.
5) None of these

**89.** If the third step of an input is "65 daily 12 tie 42 23 foreign urgent" what will be definitely the input?
1) foreign 65 tie urgent 12 42 23 daily
2) foreign 65 urgent tie 42 daily 23 12
3) foreign 65 12 urgent tie 42 daily 23
4) Cannot be determined
5) None of these

**90.** If the second step of an input is "76 from 48 super itself 56 18 went", how many more steps will be required to complete the arrangement?
1) Five 2) Six 3) Four
4) Three 5) None of these

**91.** What will be the third step if the input is "thirty days from now 32 56 87 24"?
1) 87 thirty days from now 32 56 24
2) 87 days thirty from now 32 56 24
3) 87 days 24 thirty from now 32 56
4) 87 thirty 24 days 32 from now 56
5) None of these

**Directions (Q. 92-96): Given an input line a machine generates passcodes step by step following certain rules as illustrated below:**

**Input** : talk seven 37 48 given 83 likely 62
**Step I** : 37 talk seven 48 given 83 likely 62
**Step II** : 37 talk 48 seven given 83 likely 62
**Step II** : 37 talk 48 seven 62 given 83 likely
**Step III** : 37 talk 48 seven 62 likely given 83
**Step IV** : 37 talk 48 seven 62 likely 83 given

Step V is the last step for this input.

In the following questions the same logic as illustrated above is to be used.

**92.** Step II for an input is
"23 working 48 32 park blossom 26 garden".
What will be the fifth step?
1) 23 working 26 park 48 32 blossom garden
2) 23 working 26 park 32 48 blossom garden
3) 23 working 26 32 park 48 blossom garden
4) 23 working 26 48 park 32 blossom garden
5) None of these

**93.** Second step of an input is "12 where 82 33 great wall 49 just". Which step will be the last step?
1) VI 2) VII 3) VIII
4) IV 5) None of these

**94.** What will be Step III for the following input?
**Input:** phone computer 32 link 18 75 46 diary
1) 18 phone 46 link computer 75 32 diary
2) 18 phone 32 link 46 computer 75 diary
3) 18 phone 32 computer link 75 46 diary

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4) 18 phone 32 link computer 75 46 diary
5) None of these

**95.** Step IV of an input is "22 united 37 trading killer 45 72 jogger". What will be the input definitely ?
1) united 22 37 jogger 45 trading 72 killer
2) united trading 22 37 jogger 45 72 killer
3) united 22 trading jogger 37 killer 45 72
4) Cannot be determined
5) None of these

**96.** What will be the third step of an input whose first step is "17 45 follow rule examination 36 85 hut"?
1) 17 rule 36 45 follow examination 85 hut
2) 17 rule 36 45 follow 85 examination hut
3) 17 rule 36 45 examination follow 85 hut
4) Cannot be determined
5) None of these

**Directions (Q. 97-101): Given an input line the machine arranges the words and numbers in steps in a systematic manner as illustrated below:**

**Input line:** 56 dress fine shine 32 66 72 offer
**Step I :** 72 56 dress fine shine 32 66 offer
**Step II :** 72 shine 56 dress fine 32 66 offer
**Step III :** 72 shine 66 56 dress fine 32 offer
**Step IV :** 72 shine 66 offer 56 dress fine 32
**Step V :** 72 shine 66 offer 56 fine dress 32
**Step VI :** 72 shine 66 offer 56 fine 32 dress

Step VI is the last step and the output in Step VI is the final output.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**97.** Step II of an input is '53 window 42 50 door lock key 36'. How many more steps will be required to complete the arrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**98.** Step IV an input is '62 sound 56 sleep roam present 33 49'. What will be the input definitely?
1) sound 62 sleep 56 roam present 33 49
2) sleep sound 62 56 roam present 33 49
3) 62 sound sleep 56 roam present 33 49
4) Cannot be determined
5) None of these

**99.** Which of the following will be the third step for input : 'jockey firm 36 43 growth chart 22 45'?
1) 45 jockey 43 growth firm 36 chart 22
2) 45 jockey 43 firm growth 36 chart 22
3) 45 jockey 43 growth 36 firm chart 22
4) 45 jockey 43 firm 36 growth chart 22
5) None of these

**100.** Which step will be the last step for an input whose second step is '63 sour 18 56 grapes healthy 32 rise'?
1) IV 2) V 3) VIII
4) VII 5) None of these

**101.** What will be the fifth step of an input whose first step is '85 journey train 36 54 daily 28 mansion'?
1) 85 train 54 mansion 28 journey daily 36
2) 85 train 54 mansion journey 36 daily 28
3) 85 train 54 mansion 36 journey daily 28
4) There is no such step
5) None of these

**Directions (Q. 102-106): A coding machine generates pass codes in steps. The process begins at 10 am and each step is a hour in duration. There is a rest period of an hour at 2 pm after which the duration of each step is 45 minutes.**

**Input :** trucks 49 carry 36 massive 25 load 16
**Step I :** carry trucks 49 36 massive 25 load 16
**Step II :** carry 16 trucks 49 36 massive 25 load
**Step III :** carry 16 load trucks 49 36 massive 25
**Step IV :** carry 16 load 25 trucks 49 36 massive
**Step V :** carry 16 load 25 massive trucks 49 36
**Step VI :** carry 16 load 25 massive 36 trucks 49

Step VI is the last step for the above input.

Now answer the following questions, following the same rules as illustrated above for rearrangement of the input line.

**102.** If the third step of the input is "is 4 material 36 test 16 packed 64" which of the following will be the fifth step?
1) is 4 material 16 packed 64 test 36
2) is 4 material 16 packed 36 test 64
3) is 4 material 16 test 36 packed 64
4) There are only four steps.
5) None of these

**103.** What will be the third step of the input "ministers 25 solved 36 their 81 problems 64"?
1) ministers 25 problems 36 solved 81 their 64
2) ministers 25 problems 36 solved 64 their 81
3) ministers 25 problems 36 their 81 solved 64
4) ministers 25 solved 36 problems 81 their 64
5) None of these

**104.** If the input is "the 36 issue 49 became 9 serious 25" how many steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**105.** How long excluding the rest period will it take to rearrange the input "you 49 visited 81 their 16 relative 25"
1) 5 hours 45 minutes
2) 5 hours
3) 5 hours 30 minutes
4) 4 hours 45 minutes
5) None of these

**106.** What will be the input if the fourth step of the arrangement is "most 16 people 25 similarly 81 think 36"?
1) most 25 people 16 similarly 81 think 25
2) most 25 people 16 think 81 similarly 36
3) most 16 people 25 think 36 similarly 81
4) Cannot be determined
5) None of these

**Directions (Q. 107-111): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** world 32 73 verb 26 new desk 19
**Step I :** 73 world 32 verb 26 new desk 19
**Step II :** 73 desk world 32 verb 26 new 19
**Step III :** 73 desk 32 world verb 26 new 19
**Step IV :** 73 desk 32 new world verb 26 19
**Step V :** 73 desk 32 new 26 world verb 19
**Step VI :** 73 desk 32 new 26 verb world 19
**Step VII :** 73 desk 32 new 26 verb 19 world

and Step VII is the last step of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

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**107.** Step II of an input is : 51 brown 22 36 49 cloud sky red.
How many more steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**108.** Step III of an input is : 58 dine 43 18 tower silver mat 24, which of the following will be step VI?
1) 58 dine 43 mat 24 silver 18 tower
2) 58 dine 43 mat 24 18 tower silver
3) 58 dine 43 mat 18 tower silver 24
4) There will be no such step.
5) None of these

**109.** Input : 85 23 96 case over for 42 win.
How many steps will be required to complete the rearrangement?
1) Four 2) Seven 3) Five
4) Six 5) None of these

**110.** Step IV of an input is : 63 car 51 eyes 25 36 store lane. Which of the following is definitely the input?
1) eyes car 25 63 36 51 store lane
2) eyes 25 car 63 51 36 store lane
3) eyes car 51 63 36 store lane
4) Cannot be determined
5) None of these

**111.** Input : field eyes 94 32 house rent 49 27
Which of the following steps will be the last but one?
1) VI 2) V 3) VII
4) VIII 5) None of these

**Directions (Q. 112-119): Study the following information carefully and answer the given questions:**
A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input** : 51 pour 32 start now 23 46 house
**Step I** : 23 51 pour 32 start now 46 house
**Step II** : 23 start 51 pour 32 now 46 house
**Step III** : 23 start 32 51 pour now 46 house
**Step IV** : 23 start 32 pour 51 now 46 house
**Step V** : 23 start 32 pour 46 51 now house
**Step VI** : 23 start 32 pour 46 now 51 house

And Step VI is the last step of the rearrangement.
As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**112.** **Step II** of an input is : 18 task bear cold dish 81 63 31
How many more steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**113.** **Input :** 72 59 37 go for picnic 24 journey
How many steps will it take to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**114.** **Input :** nice flower 34 12 costly height 41 56
Which of the following will be step III?
1) 12 nice 34 height flower costly 41 56
2) 12 nice 34 height 41 flower costly 56
3) 12 nice 34 flower costly height 41 56
4) 12 nice flower 34 costly height 41 56
5) None of these

**115.** **Step II** of an input is : 16 victory 19 36 53 store lake town.
Which of the following will be step V?
1) 16 victory 19 town store 36 53 lake
2) 16 victory 19 town 36 store 53 lake
3) 16 victory 19 town 36 53 store lake
4) There will be no such step.
5) None of these

**116.** **Step III** of an input is : 15 yes 29 ask for soap 42 37
Which of the following is definitely the input?
1) ask yes 29 15 for soap 42 37
2) yes ask 15 29 for soap 42 37
3) 29 15 yes ask for soap 42 37
4) Cannot be determined
5) None of these

**117.** **Input :** milk pot 18 24 over goal 36 53
Which of the following steps will be the last but one?
1) VI 2) V 3) VII
4) VIII 5) None of these

**118.** **Step III** of an input is : 36 win 44 95 86 ultra box queen
How many more steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**119.** **Input :** new 22 model 27 pump 38 11 join
How many steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

**Directions (Q. 120-124): A word-number arrangement machine, when given a particular input, rearranges it following a particular rule. The following is the illustration of the input and the steps of arrangement:**

**Input:** huge elephant 39 dog 57 42 small 23
**Step I:** small huge elephant 39 dog 57 42 23
**Step II:** small 23 huge elephant 39 dog 57 42
**Step III:** small 23 huge 39 elephant dog 57 42
**Step IV:** small 23 huge 39 elephant 42 dog 57
Step IV is the last step of the given input.
As per the rule followed in the above steps, find out the appropriate step for the given input or vice versa in the following questions.

**120.** If step V of a given input be 'Ranchi 8 Nagpur 92 Mumbai 103 Delhi 100' what would be the input?
1) 8 Nagpur Mumbai 103 92 Ranchi Delhi 100
2) Mumbai 103 Nagpur 8 92 Ranchi Delhi 100
3) Ranchi Mumbai 92 Nagpur 8 103 Delhi 100
4) Can't be determined
5) None of these

**121.** If step II of a given input be 'Zoo 5 dead 20 gate 10 at 12' what would be the last step of that input?
1) Zoo 5 gate 10 dead 12 at 20
2) Zoo 5 gate 10 dead 12 20 at
3) Zoo 5 gate 10 dead 20 at 12
4) Zoo 5 gate dead 10 12 at 20
5) None of these

**122.** In how many steps can the following input be fully arranged?
**Input:** Mission impossible 2 13 7 oscar winner 19.
1) IV 2) V 3) VI
4) VII 5) None of these

**123.** What would be the penultimate step for the following input?
**Input:** Seven Razor Fifty 50 12 7 One 1

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1) Seven 1 Razor 7 One 12 50 Fifty
2) Seven 1 Razor 7 One 12 Fifty 50
3) Seven 1 Razor 7 One Fifty 50 12
4) Seven 1 Razor 7 One 50 Fifty 12
5) None of these

**124.** The second step of a given input is "where 9 here 18 there 12 near 17". What will be **Step V** for the given input?
1) Where 9 there 12 here 18 near 17
2) Where 9 there 12 near here 18 17
3) Where 9 there 12 near 17 here 18
4) Where 9 there here 18 12 near 17
5) Can't be determined

**Directions (125-131): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** basket 83 32 all turn 76 51 now
**Step I :** turn basket 83 32 all 76 51 now
**Step II :** turn 32 basket 83 all 76 51 now
**Step III :** turn 32 now basket 83 all 76 51
**Step IV :** turn 32 now 51 basket 83 all 76
**Step V :** turn 32 now 51 basket 76 83 all
**Step VI :** turn 32 now 51 basket 76 all 83

And Step VI is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**125. Input :** 20 ask never 35 62 84 tall grass
Which of the following steps will be the last but one?
1) V 2) VI 3) IV
4) VII 5) None of these

**126.** Step II of an input is : window 14 victory 63 52 24 task for. Which of the following is definitely the Input?
1) victory 63 window 14 52 24 task for
2) 63 victory window 14 52 24 task for
3) victory 63 window 52 14 24 task for
4) Cannot be determined
5) None of these

**127.** Step III of an input is : yes 15 ultra 96 73 52 home rest. How many more steps will be required to complete the rearrangement?
1) Three 2) Five 3) Four
4) Two 5) None of these

**128. Input :** 49 box store 84 63 on door 37
Which of the following will be Step V of the above input?
1) store 37 on 49 door 63 box 84
2) store 37 on 49 door box 84 63
3) store 37 on 49 box 84 63 door
4) There will be no such step.
5) None of these

**129. Input :** slow wheel 32 57 high lake 12 46
How many steps will be required to complete the rearrangement?
1) Five 2) Six 3) Seven
4) Eight 5) None of these

**130.** Step IV of an input is : year 14 team 22 63 54 goal house. Which of the following steps will be the last?
1) IX 2) VIII 3) VII
4) VI 5) None of these

**131. Input:** bag full 32 84 27 coin new 56
How many steps will be required to complete the rearrangement?
1) Seven 2) Eight 3) Five
4) Six 5) None of these

**Directions (Q. 132-137): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.**

**Input :** go now 52 38 17 for again 65
**Step I :** 65 go now 52 38 17 for again
**Step II:** 65 again go now 52 38 17 for
**Step III :** 65 again 52 go now 38 17 for
**Step IV :** 65 again 52 for go now 38 17
**Step V:** 65 again 52 for 38 go now 17
**Step VI :** 65 again 52 for 38 go 17 now
**Step VI** is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**132. Input:** show 51 36 new far 81 46 goal
Which of the following steps will be the last but one?
1) VII 2) VIII 3) VI
4) V 5) None of these

**133. Input:** home turf 39 24 86 44 roll over
Which of the following steps will be the last?
1) X 2) IX 3) VIII
4) VII 5) None of these

**134.** Step II of an input is : 76 ask 12 32 begin over join 42.
How many more steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Three 5) None of these

**135.** Step IV of an input is : 58 box 47 dew 15 21 town pot. Which of the following steps will be the last?
1) VII 2) VI 3) VIII
4) IX 5) None of these

**136.** Step III of an input is: 94 car 86 window shut 52 31 house. Which of the following is definitely the input?
1) 94 car window 86 shut 52 31 house
2) 80 window 94 car shut 52 31 house
3) car shut window 86 52 31 house 94
4) Cannot be determined
5) None of these

**137. Input:** buy win task 52 38 43 door 12. Which of the following will be step IV?
1) 52 buy 43 door 38 task 12 win
2) 52 buy 43 door 38 task win 12
3) 52 buy 43 door task win 38 12
4) There will be no such step.
5) None of these

**Directions (Q. 138-143): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** shop 17 table 20 53 oven desk 39
**Step I :** 17 shop table 20 53 oven desk 39
**Step II :** 17 table shop 20 53 oven desk 39
**Step III :** 17 table 20 shop 53 oven desk 39
**Step IV :** 17 table 20 shop 39 53 oven desk
**Step V :** 17 table 20 shop 39 oven 53 desk

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and **Step V** is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**138. Input:** 89 bind 32 goal house 61 12 joy
How many steps will be required to complete the arrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

**139.** Step II of an input is: 15 yes 62 51 48 talk now gone
Which of the following will be step VI ?
1) 15 yes 48 talk 51 now gone 62
2) 15 yes 48 talk 51 62 now gone
3) 15 yes 48 talk 51 now 62 gone
4) There will be no such step.
5) None of these

**140.** Step III of an input is : 21 victory 30 joint 64 47 all gone
How many more steps will be required to complete the rearrangement?
1) Three 2) Four 3) Five
4) Six 5) None of these

**141. Input:** win 92 task 73 59 house range 34
Which of the following will be step IV of the above input?
1) 34 win 59 task 73 range 92 house
2) 34 win 92 59 task 73 house range
3) 34 win 92 task 73 59 house range
4) There will be no such step.
5) None of these

**142. Input:** save 21 43 78 them early 36 for
Which of the following steps will be the last but one?
1) VI 2) VII 3) VIII
4) V 5) None of these

**143. Input:** desire 59 63 all few 38 46 zone
How many steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

**Directions (Q. 144-148): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** base 35 or gone 62 49 87 ahead
**Step I :** 87 base 35 or gone 62 49 ahead
**Step II :** 87 ahead base 35 or gone 62 49
**Step III :** 87 ahead 62 base 35 or gone 49
**Step IV :** 87 ahead 62 base 49 35 or gone
**Step V :** 87 ahead 62 base 49 gone 35 or
and Step V is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**144. Input:** how was your stay 56 25 36 64
Which of the following will be step VI?
1) 64 how 56 was your stay 25 36
2) 64 how 56 stay 36 was 25 your
3) 64 how 56 stay 36 was your 25
4) There will be no such step.
5) None of these

**145. Input :** power fail now 52 24 75 gate 34
Which of the following steps will be the last but one?
1) IV 2) V 3) VI
4) VII 5) None of these;

**146.** Step III of an input is: 91 car 85 14 27 few new house
Which of the following is definitely the input?
1) 85 14 91 car 27 few new house
2) car 91 85 14 27 few new house
3) car 85 14 27 few new house 91
4) Cannot be determined
5) None of these

**147.** Step II of an input is: 75 down 16 24 farm eager 62 sky
How many more steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

**148. Input:** 14 35 when they came 61 48 home
How many steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

**Directions (Q. 149-154): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input rearrangement.

**Input :** but 32 71 glory fair south 65 84
**Step I :** south but 32 71 glory fair 65 84
**Step II :** south 84 but 32 71 glory fair 65
**Step III :** south 84 glory but 32 71 fair 65
**Step IV :** south 84 glory 71 but 32 fair 65
**StepV :** south 84 glory 71 fair but 32 65
**Step VI :** south 84 glory 71 fair 65 but 32
and Step VI is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**149.** Step III of an input is: year 92 ultra 15 23 strive house 39
How many more steps will be required to complete the rearrangement?
1) Three 2) Four 3) Two
4) Five 5) None of these

**150. Input:** any how 49 24 far wide 34 69
Which of the following steps will be the last but one?
1) VI 2) VII 3) V
4) VIII 5) None of these

**151.** Step II of an input is: town 74 pair 15 31 nice job 42
Which of the following is definitely the input?
1) pair 15 31 town nice job 42 74
2) pair 15 town 31 74 nice job 42
3) pair 15 town 74 31 nice job 42
4) Cannot be determined
5) None of these

**152.** Input: play over 49 37 12 match now 81
Which of the following will be step IV ?
1) play 81 over 49 37 match now
2) play 81 over 49 37 12 now
3) play 81 over 49 now 37 match 12
4) There will be no such step.
5) None of these

**153.** Step II of an input is : war 58 box cart 33 49 star 24
Which of the following steps will be the last?

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1) V 2) VI 3) IV
4) VII 5) None of these

**154. Input:** shower fall water 34 51 67 98 goal
How many steps will be required to complete the rearrangement?
1) Three 2) Four 3) Six
4) Five 5) None of these

**Directions (Q. 155-159): Study the following information carefully and answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input :** day 74 night 36 25 68 all for
**Step I :** all day 74 night 36 25 68 for
**Step II :** all 74 day night 36 25 68 for
**Step III:** all 74 day 68 night 36 25 for .
**Step IV:** all 74 day 68 for night 36 25
**Step V :** all 74 day 68 for 36 night 25

and Step V is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for-the given input.

155. Step III of an Input : bond 86 goal 12 33 like high 46
Which of the following will be step VII?
1) bond 86 goal 46 like 12 33 high
2) bond 86 goal 46 high like 33 12
3) bond 86 goal 46 high 33 like 12
4) There will be no such step.
5) None of these

**156. Input:** mind new 27 35 19 59 own tower
Which of the following steps will be the last but one?
1) VI 2) IV 3) V
4) VII 5) None of these

**157.** Step IV of an Input: dear 63 few 51 16 29 yrs now
How many more steps will be required to complete the arrangement?
1) Four 2) Five 3) Three
4) Two 5) None of these

**158.** Step II of an input is : car 73 18 25 wear 49 long for
Which of the following is definitely the input?
1) 18 25 wear 49 long for car 73
2) 73 18 car 25 wear 49 long for
3) 18 73 25 car wear 49 long for
4) Cannot be determined
5) None of these

**159. Input:** war 52 and peace 43 16 now 24
How many steps will be required to complete the rearrangement?
1) Four 2) Five 3) Six
4) Seven 5) None of these

## Exercise–3

**Directions (Q. 1-9): Study the following information and answer the questions given:**

When a word arrangement machine is given an input line of words, it arranges them following a particular rule. The following is an illustration of input and rearrangement:

**Input:** deep snow built offer zinc note find answer can
**Step I:** answer deep snow built offer zinc note find can
**Step II:** answer built deep snow offer zinc note find can
**Step III:** answer built can deep snow offer zinc note find
**Step IV:** answer built can deep find snow offer zinc note
**StepV:** answer built can deep find note snow offer zinc
**Step VI:** answer built can deep find note offer snow zinc

Step VI is the last step of the above arrangement as the intended arrangement is obtained.

As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

**Directions (Q. 1-5):**

**Input:** held nature yeast rich win alter infer lost so done

**1.** Which of the following is second to the right of the one that is seventh from the right end of step IV?
1) infer 2) lost 3) yeast
4) nature 5) None of these

**2.** Which of the following will be step VI for the given input?
1) alter done held infer lost nature rich so win yeast
2) alter done held infer nature lost rich so win yeast
3) alter done held infer lost nature rich so yeast win
4) alter done held infer lost nature so rich yeast win
5) None of these

**3.** What will be the position of 'infer' in step III?
1) Fifth from the left end
2) Eighth from the right end
3) Fourth from the right end
4) Eighth from the left end
5) None of these

**4.** How many steps will be required to complete the arrangement?
1) VII 2) VIII 3) IX
4) VI 5) None of these

**5.** Which of the following is the third word from the right of step IV?
1) win 2) rich 3) yeast
4) lost 5) None of these

**Directions (Q. 6-9): Following are steps of an input. Rearrange them and answer the questions :**

(A) ancient cones dish vault rope yell hint
(B) ancient cones vault dish rope yell hint
(C) ancient cones dish hint rope vault yell
(D) ancient vault dish rope cones yell hint
(E) ancient cones dish hint vault rope yell

**6.** Which of the following is step V?
1) D 2) A 3) E
4) B 5) C

**7.** Which of the following is step III?
1) E 2) B 3) D
4) C 5) A

**8.** Which of the following is step IV?
1) A 2) B 3) C
4) D 5) E

**9.** Which of the following is step II?
1) A 2) C 3) B
4) E 5) D

**Directions (Q. 10-17): Study the following information to answer the given questions:**

A word and number arrangement machine when given an input line of word and numbers rearranges them following a particular rule. The following is an illustration

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of input and rearrangement. (All numbers in these questions are two-digit numbers)

**Input:** lived 18 a 12 once 93 upon 32 time 46 wolf
**Step I:** a lived 18 12 once 93 upon 32 46 time wolf
**Step II:** a once 18 12 93 upon 32 46 lived time wolf
**Step III:** a once upon 18 12 93 32 46 lived time wolf
**Step IV:** a once upon 93 18 12 32 46 lived time wolf
**Step V:** a once upon 93 46 18 12 32 lived time wolf
**Step VI:** a once upon 93 46 32 18 12 lived time wolf

Step VI is the last Step of the arrangement of the above input as the intended arrangement is obtained.

**Directions (Q. 10-14): Now, answer the questions based on the following input :**

**Input:** unique 84 can 77 open 86 quick 13 base 53 amiss 11 equal 98 start

**10.** Which of the following would be Step II for the above Input ?
1) amiss equal unique 84 77 open 86 quick 13 base 53 11 98 can start
2) amiss equal open unique 84 77 86 quick 13 base 53 11 98 can start
3) amiss equal open unique 84 77 86 13 53 11 98 base can quick start
4) amiss unique 84 77 open 86 13 base 53 11 equal 98 can quick start
5) None of these

**11.** Which of these words/numbers would be fifth (from right side) in Step III for the input?
1) 53 2) 11 3) equal
4) 98 5) None of these

**12.** Which of the following would be the last step for the input?
1) amiss equal open unique 98 86 84 77 53 13 11 base can quick start
2) amiss equal open unique 98 84 86 77 53 13 11 base can quick start
3) amiss equal open unique 98 86 84 77 53 13 11 can base quick start
4) amiss equal open unique 98 86 84 77 53 11 13 base can quick start
5) None of these

**13.** How many Steps would be needed to complete the arrangement for the above input?
1) VII 2) III 3) V
4) IV 5) None of these

**14.** The following stands for which step of the rearrangement?
amiss equal open unique 98 84 77 86 13 53 11 base can quick start
1) Step III 2) Step V 3) Step VI
4) Step IV 5) None of these

**Directions (Q. 15-17) : Given below are five steps in a jumbled order in the form of (A), (B), (C), (D) and (E) for an input. Arrange them according to the order in which they should appear based on the example given. Then answer the questions that follow.**

1) arrival on 16 44 28 66 finish match
2) arrival on 66 44 28 16 finish match
3) arrival 16 44 28 on 66 finish match
4) arrival on 66 44 16 28 finish match
5) arrival on 66 16 44 28 finish match

**15.** Which of the following will be Step II?
1) A 2) B 3) C
4) D 5) E

**16.** Which of the following will be Step III?
1) A 2) B 3) C
4) D 5) E

**17.** Which of the following will be Step I?
1) A 2) B 3) C
4) D 5) E

**Directions (Q. 18-22): Study the following information to answer the given questions:**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and rearrangement. (Single digit numbers are preceded by a zero. All other numbers are two-digit numbers)

**Input:** good 18 to raise 02 12 money 28 for 57 charity 09
**Step I:** to good 18 raise 02 12 money 28 for charity 09 57
**Step II:** to raise good 18 02 12 money for charity 09 28 57
**Step III:** to raise money good 02 12 for charity 09 18 28 57
**Step IV:** to raise money good 02 for charity 09 12 18 28 57
**Step V:** to raise money good for charity 02 09 12 18 28 57

Step V is the last Step of the arrangement of the above input as the intended arrangement is obtained.

**Directions (Q. 18-19): These questions are based on the following input:**

**Input:** always 19 give 21 84 for 62 14 worthy cause.

**18.** Which of the following would be step III for the above input?
1) worthy give for always 19 14 cause 84 62 21
2) worthy give for always 14 19 cause 21 62 84
3) always give for worthy 19 14 cause 21 62 84
4) worthy give for always 19 14 cause 21 62 84
5) always give for cause 19 14 worthy 21 62 84

**19.** How many steps would be needed to complete the arrangement for the above input?
1) VI 2) V 3) IV
4) VII 5) None of these

**Directions (Q. 20-22): These questions are based on the following input:**

**Input:** 50 62 tips on 67 how can 42 stay young 17 89 forever 03.

**20.** The following stands for which step of the arrangement? young tips stay 50 on how can 42 17 forever 03 62 67 89.
1) Step III 2) Step V 3) Step VI
4) Step IV 5) None of these

**21.** Which of the words/numbers below would be at the fifth position (from the right end) in Step V of the input?
1) forever 2) 42 3) 50
4) young 5) None of these

**22.** Which of the following would be the last step for the input?
1) young tips stay on how for ever can 03 17 42 50 62 67 89.
2) young tips stay on how forever can 89 67 62 50 42 17 03.
3) can forever how on stay tips forever 89 67 62 50 42 17 03.
4) young tips stay on how forever can 03 17 42 50 67 62 89.
5) can forever how on stay tips young 03 17 42 50 62 67 89.

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# Answers and explanations

## Exercise–1

**(1-5):** The machine operates as follows:
**1st batch to 2nd batch:** Second and fifth words interchange places.
**2nd to 3rd:** The middle two words interchange places.
**3rd to 4th:** First and last words interchange places.
**4th to 5th:** The middle words move to the extreme positions on their respective sides while the outer words move inwards.
Hereafter, the process is repeated, i.e.
**5th to 6th:** Same as 1st to 2nd
**6th to 7th:** Same as 2nd to 3rd
Let us now make our job easy by going in for digital representation. We assign numbers 1 to 6 to the words in the first batch: who-1, nut - 2, cream - 3, page - 4, for - 5, table - 6. Thus, our table becomes:

| | | | | | | |
|---|---|---|---|---|---|---|
| **1st batch:** | 1 | 2 | 3 | 4 | 5 | 6 |
| **2nd batch:** | 1 | 5 | 3 | 4 | 2 | 6 |
| **3rd batch:** | 1 | 5 | 4 | 3 | 2 | 6 |
| **4th batch:** | 6 | 5 | 4 | 3 | 2 | 1 |
| **5th batch:** | 4 | 6 | 5 | 2 | 1 | 3 |
| **6th batch:** | 4 | 1 | 5 | 2 | 6 | 3 |
| **7th batch:** | 4 | 1 | 2 | 5 | 6 | 3 |

We can now answer the questions easily by applying the above table.

**1.** 1; **7th batch:** from door no leaf grass but
4 1 2 5 6 3
**3rd batch:** 1 5 4 ....
door leaf from ...

**2.** 2; **6th batch:** very say could man on fire
4 1 5 2 6 3
As per the above code, 'say could very fire man on' would read as 1 5 4 3 2 6. Which clearly is the 3rd batch (see table).

**3.** 4; **4th batch:** so when clear get lemon dust
6 5 4 3 2 1
**7th batch:** 4 1 2 5 6 3
clean dust lemon when so get

**4.** 2; Note that 4th batch is the reverse order of the first batch.

**5.** 3; **5th batch:** same is tea at now then
4 6 5 2 1 3
**1st batch:** 1 2 3 4 5 6
now at then same tea is

**(6-10):** Here the rule followed is:
In each step the fourth word becomes first word and the last word becomes fourth word and all other words shift one place rightwards except the third, which shifts two place rightwards.
In order to make things easier, let us represent the words digitally from 1 to 7. Then we have:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Step I:** | 4 | 1 | 2 | 7 | 3 | 5 | 6 |
| **Step II:** | 7 | 4 | 1 | 6 | 2 | 3 | 5 |
| **Step III:** | 6 | 7 | 4 | 5 | 1 | 2 | 3 |
| **Step IV:** | 5 | 6 | 7 | 3 | 4 | 1 | 2 |
| **Step V:** | 3 | 5 | 6 | 2 | 7 | 4 | 1 |
| **Step VI:** | 2 | 3 | 5 | 1 | 6 | 7 | 4 |

[**Note:** We have gone up to step VI because one of the questions (Q. 6) demands that.]

**6.** 3; **Input:** say not you are only wise yet
1 2 3 4 5 6 7
**Arrangement:** not you only say wise yet are
**Step VI:** 2 3 5 1 6 7 4

**7.** 1; **Step V:** so cd rom lay is nor it
3 5 6 2 7 4 1
**Step II:** 7 4 1 6 2 3 5
is nor it rom lay so cd

**8.** 5; **Step III:** lo men chi from yet as know
6 7 4 5 1 2 3
**Input:** 1 2 3 4 5 6 7
yet as know chi from lo men

**9.** 5; The rule is given above.

**10.** 2

**(11-17):** Here the rule followed is:
The last word of the previous batch becomes first and the first and second words shift rightwards i.e. becomes second and third respectively. Now the second-last and the thirdlast words of the previous batch become fourth and fifth respectively and the third, fourth and fifth become sixth, seventh and eighth respectively.
For convenience, we assign numeric value to these words as: clothes-1, neat- 2, and-3, clean-4, liked-5, are-6 all-7, by-8

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Batch I:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Batch II:** | 8 | 1 | 2 | 7 | 6 | 3 | 4 | 5 |
| **Batch III:** | 5 | 8 | 1 | 4 | 3 | 2 | 7 | 6 |
| **Batch IV:** | 6 | 5 | 8 | 7 | 2 | 1 | 4 | 3 |
| **Batch V:** | 3 | 6 | 5 | 4 | 1 | 8 | 7 | 2 |
| **Batch VI:** | 2 | 3 | 6 | 7 | 8 | 5 | 4 | 1 |

**11.** 3; **Batch III:**
night succeed day and hard work to for
5 8 1 4 3 2 7 6
**Batch VI:**
2 3 6 7 8 5 4 1
work hard for to succeed night and day

**12.** 4; **Batch V:**
visit in zoo should the we time day
3 6 5 4 1 8 7 2
**Batch III:**
zoo we the should visit day time in
5 8 1 4 3 2 7 6

**13.** 1; **Batch IV:**
to fast rush avoid not do very run
6 5 8 7 2 1 4 3
**Batch II:**
8 1 2 7 6 3 4 5
rush do not avoid to run very fast

**14.** 1 **15.** 1
**16.** 3 **17.** 5

**(18-24):** Here the rule followed is:
In each step the fifth, third and first words become the first, second and third respectively. Fourth word remains at its previous position. Sixth, seventh and eighth words shift one position leftward and the second word becomes the last, i.e. eighth. For the sake of convenience,

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if we assign numeric value to these words, viz things-1, keep-2, dust-3, your-4, all-5, away-6, from-7 & never-8, the movement will be as follows:

**Batch I (11 am-12 noon):** 1 2 3 4 5 6 7 8
**Batch II (12 noon-1 pm):** 5 3 1 4 6 7 8 2
**Batch III (1 pm-2 pm):** 6 1 5 4 7 8 2 3
**Batch IV (2 pm-3 pm):** 7 5 6 4 8 2 3 1
**Batch V (3 pm-4 pm):** 8 6 7 4 2 3 1 5
**Batch VI (4 pm-5 pm):** 2 7 8 4 3 1 5 6
**Batch VII (5 pm-6 pm):** 3 8 2 4 1 5 6 7
**Batch VIII (6 pm-7 pm):** 1 2 3 4 5 6 7 8

**18.** 3; **Batch VII:**
he for went then to the shop in
3 8 2 4 1 5 6 7
**Arrangement:**
shop to the then in for went he
6 1 5 4 7 8 2 3

**19.** 4 **20.** 2 **21.** 3
**22.** 5 **23.** 2 **24.** 1

**(25-29):** In each step the first word becomes the third; the third becomes the sixth; the sixth becomes seventh; the seventh becomes fifth; the fifth becomes second and the second becomes the first. The fourth word does not change its place. For convenience, write the steps numerically and then solve the questions using them.

**Batch I (9 am to 10 am):** 1 2 3 4 5 6 7
**Batch II (10 am to 11 am):** 2 5 1 4 7 3 6
**Batch III (11 am to 12 noon):** 5 7 2 4 6 1 3
**Batch IV (12 noon to 1 pm):** 7 6 5 4 3 2 1
**Batch V (2 pm to 3 pm):** 6 3 7 4 1 5 2
**Batch VI (3 pm to 4 pm):** 3 1 6 4 2 7 5
**Batch VII (4 pm to 5 pm):** 1 2 3 4 5 6 7
(As the step is same as that of **Batch I** the next steps will follow the same numeric series)
**Batch VIII (5 pm to 6 pm):** 2 5 1 4 7 3 6
**Batch IX (6 pm to 7 pm):** 5 7 2 4 6 1 3
**Batch X (7 pm to 8 pm):** 7 6 5 4 3 2 1

**25.** 5; **12 Noon:** 7 6 5 4 3 2 1
she the girl is clever very good
**3 pm:** 3 1 6 4 2 7 5
clever good the is very she girl

**26.** 4 **27.** 2
**28.** 3 **29.** 1

**(30-33):** Here it is a case of shifting. And it is a case of two-step shifting, ie the logic consists of two steps.
This implies that the change from Batch II to Batch III is same as Input to Batch I. Therefore, the change from the Batch IV to Batch V will be the same as Batch II to Batch III.
Also, the changes from Batch I to Batch II, Batch III to Batch IV and Batch V to Batch VI will be the same.
Look at the changes from Input to Batch I; and from Batch I to Batch II.
**P.** If Input is 1 2 3 4 5 6 7
Batch I becomes 1 7 2 6 3 5 4
**Q.** And if Batch I is 1 2 3 4 5 6 7
Batch II becomes as follows: 7 1 6 2 5 3 4
Using the above two-step logic, let us make a chart:

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| **Input:** | **A** | **B** | **C** | **D** | **E** | **F** | **G** |
| **Batch I:** (10 am to 11 am) | A | G | B | F | C | E | D |
| **Batch II:** (11 am to 12 noon) | D | A | E | G | C | B | F |
| **Batch III:** (12 noon to 1 pm) | D | F | A | B | E | C | G |
| **Batch IV:** (1 pm to 2 pm) | G | D | C | F | E | A | B |
| **Batch V:** (3 pm to 4 pm) | G | B | D | A | C | E | F |
| **Batch VI:** (4 pm to 5 pm) | F | G | E | B | C | D | A |

**30.** 4; The passcode for the batch at 3.00 pm means the passcode for the Batch V.
**Input:**
eight friends are sitting in the circle
A B C D E F G
**Batch V:**
G B D A C E F
circle friends sitting eight are in the

**31.** 5 **32.** 1
**33.** 1

**(34-38):** Here, coding has been done in two steps after the words in the input are given a number each. In the Batch I, the words from the latter half and the first half (starting from the fifth word) are written alternately. In the Batch II, pairs of words at the positions fourth-fifth, third-sixth, second-seventh and first-eighth are written respectively. In further batches, these two steps are repeated alternately in the following way:

| **Input:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 10:00 am **Batch I:** | 5 | 1 | 6 | 2 | 7 | 3 | 8 | 4 |
| 11:00 am **Batch II:** | 2 | 7 | 6 | 3 | 1 | 8 | 5 | 4 |
| 12:00 pm **Batch III:** | 1 | 2 | 8 | 7 | 5 | 6 | 4 | 3 |
| 1:00 pm **Batch IV:** | 7 | 5 | 8 | 6 | 2 | 4 | 1 | 3 |
| 3:00 pm **Batch V:** | 2 | 7 | 4 | 5 | 1 | 8 | 3 | 6 |
| 4:00 pm **Batch VI:** | 5 | 1 | 4 | 8 | 7 | 3 | 2 | 6 |

Batch VI is the last batch for a single day. Here note that after four batches, ie from 2.00 pm there is a one-hour break and hence the Batch V starts at 3.00 pm.

**34.** 2; 11.00 am is the timing for the second batch and 12.00 noon is the timing for the third batch. Hence, the passcode will be as follows:
**11.00 am:** he slowly recedes to his inner
2 7 6 3 1 8
apartment intellect
5 4

**12.00 noon:**
his he inner slowly apartment
1 2 8 7 5
recedes intellect to
6 4 3

**35.** 4; Here, we know that 3 pm is the timing for the fifth batch. Hence, the pass code will be as follows:
**Batch II:** are of clouds transformed
2 7 6 3
they bhakti the as
1 8 5 4
∴ **Batch V:** are of as the they bhakti
2 7 4 5 1 8
transformed clouds
3 6

**36.** 1; 3.00 pm and 1.00 pm are the timings for the fifth and the fourth batches respectively. Hence, the pass code for the fourth batch will be as follows:

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**Batch V:** it is only the mind that
2 7 4 5 1 8
creates problems
3 6

∴ **Batch IV:** is the that problems it only mind creates

**37.** 5; The timing for the break (2.00 pm) comes after the batch IV (1.00 pm). Hence, the input will be as follows:
**Batch IV:** there is no permanent solution
7 5 8 6 2
for mental problems
4 1 3

∴ **Input:** mental solution problems for
1 2 3 4
is permanent there no
5 6 7 8

**38.** 3; **Batch I:** nobody can help us in
5 1 6 2 7
solving our problems
3 8 4
Hence, the input in the reverse order will be as follows:
**Input:** our in help nobody problems
8 7 6 5 4
solving us can
3 2 1

## Exercise–2

**(1-7):** From the last step it is clear that there are two alternating series of numbers: One in descending order and the other in ascending order.
When we go through input to step I, we find that the largest no. becomes the first and remaining numbers shift rightward. In the next step the smallest no. becomes the second and the rest shift rightward. These two steps continue alternately untill the two alternate series are formed.

**1.** 3; **Step II:** 765 42 183 289 542 65 110 350
**Step III:** 765 42 542 183 289 65 110 350
**Step IV:** 765 42 542 65 183 289 110 350

**2.** 4; **Input:** 239 123 58 361 495 37
**Step I:** 495 239 123 58 361 37
**Step II:** 495 37 239 123 58 361
**Step III:** 495 37 361 239 123 58

**3.** 5; **Input:** 39 88 162 450 386 72 29
**Step I:** 450 39 88 162 386 72 29
**Step II:** 450 29 39 88 162 386 72
**Step III:** 450 29 386 39 88 162 72
**Step IV:** 450 29 386 39 162 88 72
**Step V:** 450 29 386 39 162 72 88

**4.** 1; Last step can be known directly.

**5.** 2; **Step I:** 785 198 32 426 373 96 49
**Step II:** 785 32 198 426 373 96 49
**Step III:** 785 32 426 198 373 96 49
**Step IV:** 785 32 426 49 198 373 96

**6.** 2; **Step II:** 298 12 128 36 212 185
**Step III:** 298 12 22 128 36 185
**Step IV:** 298 12 212 36 128 185

**7.** 4; Previous steps can't be determined

**(8-14):** In the first step, the largest number goes to the leftmost position, pushing the rest of the line rightward. In the next step, the word that comes first in the alphabetical order occupies the second position from the left, pushing the rest of the line rightward. Thus the numbers and words get arranged alternately till all the numbers are placed in the descending order and the words in the alphabetical order.

**8.** 4; **Input:** organize 19 12 stable room 35 72 house
**Step I:** 72 organize 19 12 stable room 35 houses.
**Step II:** 72 house organize 19 12 stable room 35
**Step III:** 72 house 35 organize 19 12 stable room
**Step IV:** 72 house 35 organize 19 room 12 stable

**9.** 1; **Input:** bake never store 51 26 33 age 49
**Step I:** 51 bake never store 26 33 age 49
**Step II:** 51 age bake never store 26 33 49
**Step III:** 51 age 49 bake never store 33 26
**Step IV:** 51 age 49 bake 33 never store 26
**Step V:** 51 age 49 bake 33 never 26 store

**10.** 5; **Input:** always go there 39 62 47 time 24
**Step I:** 62 always go there 39 47 time 24
**Step II:** 62 always 47 go there 39 time 24
**Step III:** 62 always 47 go 39 there time 24
**Step IV:** 62 always 47 go 39 there 24 time
Hence step III will be the last but one.

**11.** 4; We can't proceed backward.

**12.** 4; **Step III:** 84 for 56 29 17 won loss game
**Step IV:** 84 for 56 game 29 17 won loss
**Step V:** 84 for 56 game 29 loss 17 won

**13.** 1; **Step III:** 86 box 63 18 gear card 51 new
**Step IV:** 86 box 63 card 18 gear 51 new
**Step V:** 86 box 63 card 51 18 gear new
**Step VI:** 86 box 63 card 51 gear 18 new
Hence 6 - 3 = 3 more steps will be required.

**14.** 5; **Step IV:** 59 bend 46 card 14 27 win now
**Step V:** 59 bend 46 card 27 14 win now
**Step VI:** 59 bend 46 card 27 now 14 win
Since the line is already arranged, there will be no step VII.

**(15-21):** Here the rule followed is: numbers are getting arranged in descending order.
The largest of the given numbers interchanges its place with the first number. [In case the largest number is already arranged, the second largest is interchanged with the number next to the largest no., and so on until the numbers are arranged in descending order.

**15.** 2; **Step II:** 842 485 68 358 236 123 93
**Step III:** 842 485 358 68 236 123 93
**Step IV:** 842 485 358 236 68 123 93
**Step V:** 842 485 358 236 123 68 93

**16.** 1

**17.** 4; **Input:** 113 18 48 225 462 175 288
**Step I:** 462 18 48 225 113 175 288
**Step II:** 462 288 48 225 113 175 18
**Step III:** 462 288 225 48 113 175 18

**18.** 3; **Step I:** 498 175 292 96 79 387 158
**Step II:** 498 387 292 96 79 175 158
**Step III:** 498 387 292 175 79 96 158
**Step IV:** 498 387 292 175 158 96 79

**19.** 4; Previous step can't be determined.

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**20.** 5; **Input:** 158 294 22 89 142 385 463
**Step I:** 463 294 22 89 142 385 158
**Step II:** 463 385 22 89 142 294 158

**21.** 2; The series which is in strictly descending order will be the answer.

**(22-26):** The words are arranged according to the number of letters they have, one at a time. The word with the maximum number of letters is put first. If two words have the same number of letter, we go for alphabetical arrangement.

**22.** 2; **Input:** the in car as he may me
**Step I:** car the in as he may me
**Step II:** car may the in as he me
**Step III:** car may the as in he me

**23.** 5; **Step II:** clever remand window sales batch tiger never
**Step III:** clever remand window batch sales tiger never
**Step IV:** clever remand window batch never sales tiger
Now, step IV would be the last step.

**24.** 1; **Input:** true se veto be nuke my like
**Step I:** like true se veto be nuke my
**Step II:** like nuke true se veto be my
**Step III:** like nuke true veto se be my
**Step IV:** like nuke true veto be se my

**25.** 4; **Input:** more fight cats cough sough acts idea
**Step I:** cough more fight cats sough acts idea
**Step II:** cough fight more cats sough acts idea
**Step III:** cough fight sough more cats acts idea
**Step IV:** cough fight sought acts more cats idea
**Step V:** cough fight sough acts cats more idea
**Step VI:** cough fight sough acts cats idea more

**26.** 5; We can't move backward.

**(27-31):** From the last step it can be concluded that words and numbers are arranged alternately. Word with least number of letters shifts to the leftmost position followed by the least number among the given numbers. In case of two words with same number of letters, words are arranged as per their dictionary order. For getting arranged they are interchanged with the word/number whose place it occupies.

**27.** 4; **Input:** go 123 save be 39 67 let
**Step I:** be 123 save go 39 67 let
**Step II:** be 39 save go 123 67 let
**Step III:** be 39 go save 123 67 let
**Step IV:** be 39 go 67 123 save let
**Step V:** be 39 go 67 let save 123
**Step VI:** be 39 go 67 let 123 save

**28.** 5; **Input:** we 143 lay as 12 may 36
**Step I:** as 143 lay we 12 may 36
**Step II:** as 12 lay we 143 may 36
**Step III:** as 12 we lay 143 may 36
**Step IV:** as 12 we 36 143 may lay

**29.** 4; Previous step can't be determined.

**30.** 3; **Input:** like tea 115 1264 eat 151 gate
**Step I:** eat tea 115 1264 like 151 gate
**Step II:** eat 115 tea 1264 like 151 gate
**Step III:** eat 115 tea 151 like 1264 gate

**31.** 1; **StepII:** get 116 1250 say 1124 four 148 hire
**Step III:** get 116 say 1250 1124 four 148 hire
**Step IV:** get 116 say 148 1124 four 1250 hire
**Step V:** get 116 say 148 four 1124 1250 hire
**Step VI:** get 116 say 148 four 1124 hire 1250
[**Note:** In the sample given for the arrangement, the mode of arrangement is ambiguous. We have taken interechange as our basis but arrangement by shifting is also a possibility. Such ambiguous questions should not be asked.]

**(32-36):** The words get arranged one by one on the basis of the no. of letters, the word with least no. of words gets arranged first. If the no. of letters is the same, the word that comes first in the dictionary gets arranged first. While one word gets arranged, the others shift rightwards.

**32.** 1; **Step II:** is to for while they were going day
**Step III:** is to day for while they were going
**Step IV:** is to day for they while were going

**33.** 4; Previous step can't be determined.

**34.** 3; **Input:** lack of a common safe in the
**Step I:** a lack of common safe in the
**Step II:** a in lack of common safe the
**Step III:** a in of lack common safe the

**35.** 5

**36.** 2; **Step I:** If there was no good man
**Step II:** If no there was good man
**Step III:** If no man there was good

**(37-41):** Here the rule followed is:
Words are arranged according to their no. of letters. Words with largest no. of letters are arranged first. For two words with equal no. of letters they follow the order of English dictionary, ie the word which comes first in English dictionary is arranged first. In each step only one word is arranged and the rest shift one position rightwards. The process goes on untill all the words are arranged.

**37.** 2

**38.** 4; Previous step can't be determined.

**39.** 5 **40.** 3 **41.** 1

**(42-46):** From the last step it is clear that words are arranged in alphabetical order and nos. are arranged in decreasing order alternately. To obtain this output first the word, which comes first in dictionary, comes to the first place and the rest shift one place rightwards. In the next step the largest no. comes to the second place and the rest shift one place rightwards. These two steps occur alternately untill the last step is obtained.

**42.** 1 **43.** 4 **44.** 2
**45.** 3 **46.** 5

**(47-51):** From the last step it can be concluded that words and numbers are arranged alternately. Words are arranged alphabetically whereas numbers are arranged in descending order. When the arrangement of all elements gets completed in a particular step that step is called last step.

**47.** 3; **Input:** machine hire for 19 against 85 21 46
**Step I:** against machine hire for 19 85 21 46
**Step II:** against 85 machine hire for 19 21 46

**48.** 3; **Input:** box at 20 53 62 gift now 32
**Step I:** at box 20 53 62 gift now 32
**Step II:** at 62 box 20 53 gift now 32
**Step III:** at 62 box 53 20 gift now 32
**Step IV:** at 62 box 53 gift 20 now 32

**49.** 3; **Input:** on at 33 27 42 sky mat 51
**Step I:** at on 33 27 42 sky mat 51
**Step II:** at 51 on 33 27 42 sky mat
**Step III:** at 51 mat on 33 27 42 sky
**Step IV:** at 51 mat 42 on 33 27 sky
**Step V:** at 51 mat 42 on 33 sky 27

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**50.** 1; **Step III:** bring 63 desk 11 29 together fight 30
**Step IV:** bring 63 desk 30 11 29 together fight
**Step V:** bring 63 desk 30 fight 11 29 together
**Step VI:** bring 63 desk 30 fight 29 11 together
**Step VII:** bring 63 desk 30 fight 29 together 11
Step VII is the last step. Hence, step VI is the secondlast step (penultimate step).

**51.** 4; Previous steps can't be determined.

**(52-56):** In the given arrangement the first and the second places are occupied by words; the third and the fourth by numbers; the fifth and the sixth by words; and the seventh and the eighth by numbers.
Words occupy place in alphabetical order while numbers occupy place in descending order.
Whenever a word or a number gets arranged other elements shift one place rightward.

**52.** 4; Since it is a case of 'Arrangement', previous steps can't be obtained with certainty.

**53.** 1; **Input:** bring home 42 73 15 goal 32 type
**Step I:** bring goal home 42 73 15 32 type
**Step II:** bring goal 73 home 42 15 32 type
**Step III:** bring goal 73 42 home 15 32 type
**Step IV:** bring goal 73 42 home type 15 32
**Step V:** bring goal 73 42 home type 32 15
Since all the elements of Input get arranged in Step V, it is the last step.

**54.** 5; **Input:** bench 47 63 advance 13 29 again between
**Step I:** advance bench 47 63 13 29 again between
**Step II:** advance again bench 47 63 13 29 between
**Step III:** advance again 63 bench 47 13 29 between

**55.** 3; **Step II:** desk eagle 12 28 41 69 foreign land
**Step III:** desk eagle 69 12 28 41 foreign land
**Step IV:** desk eagle 69 41 12 28 foreign land
**Step V:** desk eagle 69 41 foreign 12 28 land
**Step VI:** desk eagle 69 41 foreign land 12 28
**Step VII:** desk eagle 69 41 foreign land 28 12

**56.** 1; **Step III:** again dark 83 sour 19 21 prey 39
**Step IV:** again dark 83 39 sour 19 21 prey
**Step V:** again dark 83 39 prey sour 19 21
**Step VI:** again dark 83 39 prey sour 21 19
Since step VI is the last step (because all elements of step III get arranged in step VI), step V is the required step (penultinate step or last but one.)

**(57-61):** Here it is case of arrangement. The logic is: the words get arranged in alphabetical order. Whereas the numbers get arranged in descending order. Numbers occupy odd places in the final steps while words occupy even positions. When any element gets arranged the previous elements occupying that position shifts one place towards right.

**57.** 2; **Input:** 9 13 about tariff 24 call 29 even
**Step I:** 29 9 13 about tariff 24 call even
**Step II:** 29 about 9 13 tariff 24 call even
**Step III:** 29 about 24 9 13 tariff call even
**Step IV:** 29 about 24 call 9 13 tariff even

**58.** 3; **Step II:** 37 desk 34 garden 5 father victory 17
**Step III:** 37 desk 34 father garden 5 victory 17
**Step IV:** 37 desk 34 father 17 garden 5 victory
Since all the elements of the input are fully arranged in Step IV, this is the last step of the given input.

**59.** 4; **Step I:** 59 bead tenure father 38 11 ultimate 24
**Step II:** 59 bead 38 tenure father 11 ultimate 24
**Step III:** 59 bead 38 father tenure 11 ultimate 24

**60.** 4; Since it is a case of arrangement, we can't obtain previous steps with certainty.

**61.** 1; **Input:** 24 12 entry sand butter 51 32 carry
**Step I:** 51 24 12 entry sand butter 32 carry
**Step II:** 51 butter 24 12 entry sand 32 carry
**Step III:** 51 butter 32 24 12 entry sand carry

**(62-66):** An intuitive look at the input and the steps makes it clear that it is a case of arrangement. The input is a combination of words and numbers. Words get arranged according to reverse order of alphabetical arrangement whereas numbers get arranged in ascending order.
In step I, 'over' occupies the first place from the left end and the other elements are pushed one place rightward.
Similarly, in step II, '26' occupies the second place from the left end and the other elements are pushed one place rightward.
Thus alternate arranging of words and numbers finally gives the last step in which the odd places from the left are occupied by words and the even places are occupied by numbers.

**62.** 4; Since it is a case of arrangement, therefore previous steps or input can't be determined with certainty.

**63.** 2; **Step III:** take 17 mind game 29 73 18 loud
**Step IV:** take 17 mind 18 game 29 73 loud
**Step V:** take 17 mind 18 loud game 29 73
**Step VI:** take 17 mind 18 loud 29 game 73
Hence, step VI is the last step. Therefore, three more steps are required to complete the sequence.

**64.** 4; **Input:** by now 51 32 for 91 20 me
**Step I:** now by 51 32 for 91 20 me
**Step II:** now 20 by 51 32 for 91 me
**Step III:** now 20 me by 51 32 for 91
**Step IV:** now 20 me 32 by 51 for 91
**Step V:** now 20 me 32 for by 51 91
**Step VI:** now 20 me 32 for 51 by 91
Hence, step VI is the last step for the given input.

**65.** 2; **Input:** fight for all 39 62 25 today 19
**Step I:** today fight for all 39 62 25 19
**Step II:** today 19 fight for all 39 62 25
**Step III:** today 19 for fight all 39 62 25
**Step IV:** today 19 for 25 fight all 39 62

**66.** 5; **Input:** queen mary 79 62 17 20 green west
**Step I:** west queen mary 79 62 17 20 green
**Step II:** west 17 queen mary 79 62 20 green
**Step III:** west 17 queen 20 mary 79 62 green
**Step IV:** west 17 queen 20 mary 62 79 green
**Step V:** west 17 queen 20 mary 62 green 79
Hence, step V is the last step. Therefore the penultimate step (last but one) is step IV.

**(67-71):** From the last step it is clear that when we arrange the words of the input as in English dictionary order, then arrangement starts with the last word, then the first word, then second last word and so on.

**67.** 1; **Input:** car on star quick demand fat
**Step I:** star car on quick demand fat
**Step II:** star car quick on demand fat
**Step III:** star car quick demand on fat

**68.** 5; Previous step can't be determined.

**69.** 5; Previous step can't be determined.

**70.** 1; It is clear that the given arrangement comes earlier than step III because there is a reshuffle

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in the first three words. Now, we start with the unknown step (say X) and move towards step III.
**Step X:** Warden ink town garden restore examination
**Step (X + 1):** Warden examination ink town garden restore
**Step (X + 2):** Warden examination town ink garden restore
But X + 2 = 3
∴ X = 1

**71.** 3; **Input:** ink hurry yet for the victory
**Step I:** yet ink hurry for the victory
**Step II:** yet for ink hurry the victory
**Step III:** yet for victory ink hurry the
**Step IV:** yet for victory hurry ink the
**Step V:** yet for victory hurry the ink

**(72-76):** From the last step it is clear that two alternate series: a number series and a word series are established. The number series is in ascending order while the word series follows the rule of English dictionary. The word which appears later in the dictionary comes first in the series.
To establish the series, first the word, which appears later in the dictionary comes at the first position and the rest shift one position rightwards. Similarly, the least number comes at the second position and the rest shift one position rightwards. The process continues until the required series is obtained.

**72.** 5; **Input:** ordinary tight 62 84 35 victory move 28
**Step I:** victory ordinary tight 62 84 35 move 28
**Step II:** victory 28 ordinary tight 62 84 35 move
**Step III:** victory 28 tight ordinary 62 84 35 move
**Step IV:** victory 28 tight 35 ordinary 62 84 move

**73.** 1; **Step IV:** terminal 12 sound 14 90 71 ask car
**Step V:** terminal 12 sound 14 car 90 71 ask
**Step VI:** terminal 12 sound 14 car 71 90 ask
**Step VII:** terminal 12 sound 14 car 71 ask 90

**74.** 2; **Input:** quick buy 12 91 75 astrologer dean 32
**Step I:** quick 12 buy 91 75 astrologer dean 32
**Step II:** quick 12 dean buy 91 75 astrologer 32
**Step III:** quick 12 dean 32 buy 91 75 astrologer
**Step IV:** quick 12 dean 32 buy 75 91 astrologer
**Step V:** quick 12 dean 32 buy 75 astrologer 91

**75.** 3; **Input:** below deliver 80 72 town window 25 52
**Step I:** window below deliver 80 72 town 25 52
**Step II:** window 25 below deliver 80 72 town 52
**Step III:** window 25 town below deliver 80 72 52
**Step IV:** window 25 town 52 below deliver 80 72
**Step V:** window 25 town 52 deliver below 80 72
**Step VI:** window 25 town 52 deliver 72 below 80
Step VI is the last step. Hence step V is the penultimate step.

**76.** 4; Previous step can't be determined.

**(77-81):** Here it is a case of arrangement.
The logic is: the words get arranged in alphabetical order. Whereas the numbers get arranged in descending order. Numbers occupy odd places in the final steps while words occupy even positions. When any element gets arranged, the previous element occupying that position shifts one place towards right.

**77.** 3; Here we have to find out the penultimate step, ie second-last step.
**Input:** when you 22 special 31 16 47 town
**Step I:** 47 when you 22 special 31 16 town
**Step II:** 47 special when you 22 31 16 town
**Step III:** 47 special 31 when you 22 16 town
**Step IV:** 47 special 31 town when you 22 16
**Step V:** 47 special 31 town 22 when you 16
**Step VI:** 47 special 31 town 22 when 16 you
Here, step VI is the last step. Thus, the penultimate step will be step V.

**78.** 4; **Input:** chair wood 21 42 59 height bench 78
**Step I:** 78 chair wood 21 42 59 height bench
**Step II:** 78 bench chair wood 21 42 59 height
**Step III:** 78 bench 59 chair wood 21 42 height
**Step IV:** 78 bench 59 chair 42 wood 21 height
**Step V:** 78 bench 59 chair 42 height wood 21
**Step VI:** 78 bench 59 chair 42 height 21 wood
Hence, step VI is the last step.

**79.** 4; Here, it is a case of arrangement. Therefore the previous steps can't be obtained with certainty.

**80.** 2; **Step III:** 82 brown 74 sugar hobby lady 32 49
**Step IV:** 82 brown 74 hobby sugar lady 32 49
**Step V:** 82 brown 74 hobby 49 sugar lady 32
**Step VI:** 82 brown 74 hobby 49 lady sugar 32

**81.** 3; **Input:** goal team ask 12 92 85 42 sound
**Step I:** 92 goal team ask 12 85 42 sound
**Step II:** 92 ask goal team 12 85 42 sound
**Step III:** 92 ask 85 goal team 12 42 sound
**Step IV:** 92 ask 85 goal 42 team 12 sound

**(82-86):** It is a case of arrangement. Look at the last step. From the last step we came to know that words are arranged according to the reverse order of English alphabet. Whereas the numbers are arranged in ascending order. In the final arrangement we get word, number, word, number, .....
From input to step I, there is no change. From step I to step II only one element gets arranged. But from step II to step III two elements get arranged. From step III to step IV; and from step IV to step V only one element gets arranged.

**82.** 5; Since it is a case of arrangement we can't get 1st step.

**83.** 4; **Input:** paper common 36 51 pencil 28 test 66
**Step I:** paper common 36 51 pencil 28 test 66
**Step II:** test paper common 36 51 pencil 28 66
**Step III:** test 28 pencil paper common 36 51 66

**84.** 1; **Step II:** waive 14 available time 38 46 probation 85
**Step III:** waive 14 time 38 available 46 probation 85
**Step IV:** waive 14 time 38 probation available 46 85
**Step V:** waive 14 time 38 probation 46 available 85
Here, step V is the last step. Hence, three more steps are needed after step II to complete the arrangement.

**85.** 3; **Input:** 27 sports 48 television commentary 18 house 36
**Step I:** 27 sports 48 television commentary 18 house 36
**Step II:** television 27 sports 48 commentary 18 house 36
**Step III:** television 18 sports 27 48 commentary house 36
**Step IV:** television 18 sports 27 house 48 commentary 36
**Step V:** television 18 sports 27 house 36 48 commentary
**Step VI:** television 18 sports 27 house 36 commentary 48
Here, the complete arrangement is obtained in step VI. Hence, Step VI is the last step.

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**86.** 5; **Step I:** number game 54 23 always lacking 16 75
**Step II:** number 16 game 54 23 always lacking 75
**Step III:** number 16 lacking 23 game 54 always 75
Since step III is the last step, fourth step can't be possible.

**(87-91):** It is a case of simple arrangement.
Look at the last step. From last step it is obvious that numbers and words get arranged alternately. Also, the numbers are arranged in the following way:
Largest, Smallest, Second largest, Second smallest ... and so on.
Also, the words are arranged in the following way:
A ..., Z ..., B ..., Y ... and so on.
From input to step I, a number gets arranged first and the remaining elements are pushed rightward. From step I to step II, a word gets arranged and the remaining elements are pushed rightward. The process continues and all the elements get arranged. If an element is found already arranged, another element gets arranged.

**87.** 2; **Step III:** 91 go 28 mock pet 43 lead 37
**Step IV:** 91 go 28 pet mock 43 lead 37
**Step V:** 91 go 28 pet 43 mock lead 37
**Step VI:** 91 go 28 pet 43 lead mock 37
**Step VII:** 91 go 28 pet 43 lead 37 mock
Hence, step VII is the last step.

**88.** 2; **Step II:** 52 at deep follow 41 16 road 32
**Step III:** 52 at 16 deep follow 41 road 32
**Step IV:** 52 at 16 road deep follow 41 32
**Step V:** 52 at 16 road 41 deep follow 32

**89.** 4; It is a case of arrangement. Previous steps can't be obtained with certainty.

**90.** 3; **Step II:** 76 from 48 super itself 56 18 went
**Step III:** 76 from 18 48 super itself 56 went
**Step IV:** 76 from 18 went 48 super itself 56
**Step V:** 76 from 18 went 56 48 super itself
**Step VI:** 76 from 18 went 56 itself 48 super
Step VI is the last step. Thus, four more steps are required to get the arrangement.

**91.** 3; **Input:** thirty days from now 32 56 87 24
**Step I:** 87 thirty days from now 32 56 24
**Step II:** 87 days thirty from now 32 56 24
**Step III:** 87 days 24 thirty from now 32 56

**(92-96):** An intuitive look at the input and the steps makes it clear that it is a case of arrangement. The input is a combination of words and numbers. Words get arranged according to reverse order of alphabetical arrangement, whereas numbers get arranged in an ascending order.
From input to step I, '37' occupies the first place from the left end and the other elements are pushed one place rightward.
Similarly, in step II, since the word 'talk' is already arranged at the second place, therefore '48' occupies the third place and the other elements are pushed one place rightward.
Thus, alternate arranging of numbers and words finally gives the last step in which the odd places from the left are occupied by numbers and the even places are occupied by words.

**92.** 2; **Step II:** 23 working 48 32 park blossom 26 garden
**Step III:** 23 working 26 48 32 park blossom garden
**Step IV:** 23 working 26 park 48 32 blossom garden
**Step V:** 23 working 26 park 32 48 blossom garden

**93.** 1; **Step II:** 12 where 82 33 great wall 49 just
**Step III:** 12 where 33 82 great wall 49 just
**Step IV:** 12 where 33 wall 82 great 49 just
**Step V:** 12 where 33 wall 49 great 82 just
**Step VI:** 12 where 33 wall 49 just 82 great
Hence, step VI is the last step.

**94.** 4; **Input:** phone computer 32 link 18 75 46 diary
**Step I:** 18 phone computer 32 link 75 46 diary
**Step II:** 18 phone 32 computer link 75 46 diary
**Step III:** 18 phone 32 link computer 75 46 diary

**95.** 4; Since it is a case of arrangement, therefore previous steps can't be obtained.

**96.** 1; **Step I:** 17 45 follow rule examination 36 85 hut
**Step II:** 17 rule 45 follow examination 36 85 hut
**Step III:** 17 rule 36 45 follow examination 85 hut

**(97-101):** In Step I the largest number occupies the leftmost position, pushing the rest of the line rightwards. In the next step the word that comes last in the alphabetical order occupies the second position from the left and the remaining terms move rightwards. This goes on alternately till all the numbers get arranged in descending order and the words in reverse alphabetical order at alternate positions. In case a term is already arranged, the machine moves on to the next one.

**97.** 2; **Step II :** 53 window 42 50 door lock key 36
**Step III :** 53 window 50 42 door lock key 36
**Step IV :** 53 window 50 lock 42 door key 36
**Step V :** 53 window 50 lock 42 key door 36
**Step VI :** 53 window 50 lock 42 key 36 door
Hence, four more steps are required.

**98.** 4; We cannot determined the arrangement in the reverse direction.

**99.** 1; **Input:** jockey firm 36 43 growth chart 22 45
**Step I:** 45 jockey firm 36 43 growth chart 22
**Step II:** 45 jockey 43 firm 36 growth chart 22
**Step III:** 45 jockey 43 growth firm 36 chart 22

**100.** 5; **Step II:** 63 sour 18 56 grapes healthy 32 rise
**Step III:** 63 sour 56 18 grapes healthy 32 rise
**Step IV:** 63 sour 56 rise 18 grapes healthy 32
**Step V:** 63 sour 56 rise 32 18 grapes healthy
**Step VI:** 63 sour 56 rise 32 healthy 18 grapes
Hence step VI will be the last step.

**101.** 3; **Step I:** 85 journey train 36 54 daily 28 mansion
**Step II:** 85 train journey 36 54 daily 28 mansion
**Step III:** 85 train 54 journey 36 daily 28 mansion
**Step IV:** 85 train 54 mansion journey 36 daily 28
**Step V:** 85 train 54 mansion 36 journey daily 28

**(102-106):** The words get arranged in alphabetical order and the numbers in ascending order — first a word and then a number. And this goes on alternately. When a word or number gets arranged, the remaining terms shift rightward.

**102.** 2; **Step III:** is 4 material 36 test 16 packed 64
**Step IV:** is 4 material 16 36 test packed 64
**Step V:** is 4 material 16 packed 36 test 64

**103.** 2; **Input:** ministers 25 solved 36 their 81 problems 64
**Step I:** ministers 25 problems solved 36 their 81 64
**Step II:** ministers 25 problems 36 solved their 81 64

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**Step III:** ministers 25 problems 36 solved 64 their 81

**104.** 4; **Input:** the 36 issue 49 became 9 serious 25
**Step I:** became the 36 issue 49 9 serious 25
**Step II:** became 9 the 36 issue 49 serious 25
**Step III:** became 9 issue the 36 49 serious 25
**Step IV:** became 9 issue 25 the 36 49 serious
**Step V:** became 9 issue 25 serious the 36 49
**Step VI:** became 9 issue 25 serious 36 the 49

**105.** 3; **Input:** you 49 visited 81 their 16 relative 25
**Step I:** relative you 49 visited 81 their 16 25
**Step II:** relative 16 you 49 visited 81 their 25
**Step III:** relative 16 their you 49 visited 81 25
**Step IV:** relative 16 their 25 you 49 visited 81
**Step V:** relative 16 their 25 visited you 49 81
**Step VI:** relative 16 their 25 visited 49 you 81
The first four steps will take one hour each and the last two 45 min each. Hence total time taken is 4 × 1 hr + 2 × 45 min = 5 hr 30 min.

**106.** 4; We can't proceed backward.

**(107-111):** In one step the largest number comes to the leftmost position while the remaining line shifts rightward. In the next step the word that comes first in the alphabetical order shifts to the second position and the remaining line shifts rightward. This goes on alternately till the numbers get arranged in descending order and the words in alphabetical order at alternate positions.

**107.** 2; **Step II:** 51 brown 22 36 49 cloud sky red
**Step III:** 51 brown 49 22 36 cloud sky red
**Step IV:** 51 brown 49 cloud 22 36 sky red
**Step V:** 51 brown 49 cloud 36 22 sky red
**Step VI:** 51 brown 49 cloud 36 red 22 sky
Hence 6 - 2 = 4 more steps are required.

**108.** 1; **Step III:** 58 dine 43 18 tower silver mat 24
**Step IV:** 58 dine 43 mat 18 tower silver 24
**Step V:** 58 dine 43 mat 24 18 tower silver
**Step VI:** 58 dine 43 mat 24 silver 18 tower

**109.** 3; **Input:** 85 23 96 case over for 42 win
**Step I:** 96 85 23 case over for 42 win
**Step II:** 96 case 85 23 over for 42 win
**Step III:** 96 case 85 for 23 over 42 win
**Step IV:** 96 case 85 for 42 23 over win
**Step V:** 96 case 85 for 42 over 23 win

**110.** 4; We can't move backward.

**111.** 5; **Input:** field eyes 94 32 house rent 49 27
**Step I:** 94 field eyes 32 house rent 49 27
**Step II:** 94 eyes field 32 house rent 49 27
**Step III:** 94 eyes 49 field 32 house rent 27
**Step IV:** 94 eyes 49 field 32 house 27 rent
Hence Step III will be the last but one.

**(112-116):** In step I the least number comes to the leftmost position, pushing the rest of the line rightward. In step II the word that comes last in the alphabetical order shifts to second from left, pushing again the rest of the line rightward. Similarly, in step III the second least number shifts to third from left. In step IV the second from last in the alphabetical order comes to the fourth position. And this goes on alternately till all the numbers are arranged in ascending order and the words in reverse alphabetical order.

**112.** 3; **Step II:** 18 task bear cold dish 81 63 31
**Step III:** 18 task 31 bear cold dish 81 63
**Step IV:** 18 task 31 dish bear cold 81 63
**Step V:** 18 task 31 dish 63 bear cold 81
**Step VI:** 18 task 31 dish 63 cold bear 81
**Step VII:** 18 task 31 dish 63 cold 81 bear
Hence 7 - 2 = 5 more steps will be required.

**113.** 4; **Input:** 72 59 37 go for picnic 24 journey
**Step I:** 24 72 59 37 go for picnic journey
**Step II:** 24 picnic 72 59 37 go for journey
**Step III:** 24 picnic 37 72 59 go for journey
**Step IV:** 24 picnic 37 journey 72 59 go for
**Step V:** 24 picnic 37 journey 59 72 go for
**Step VI:** 24 picnic 37 journey 59 go 72 for

**114.** 1; **Input:** nice flower 34 12 costly height 41 56
**Step I:** 12 nice flower 34 costly height 41 56
**Step II:** 12 nice 34 flower costly height 41 56
**Step III:** 12 nice 34 height flower costly 41 56

**115.** 4; **Step II:** 16 victory 19 36 53 store lake town
**Step III:** 16 victory 19 town 36 53 store lake
**Step IV:** 16 victory 19 town 36 store 53 lake
Since the line is already arranged, there will be no fifth step.

**116.** 4; We can't work out backward.

**117.** 2; **Input:** milk pot 18 24 over goal 36 53
**Step I:** 18 milk pot 24 over goal 36 53
**Step II:** 18 pot milk 24 over goal 36 53
**Step III:** 18 pot 24 milk over goal 36 53
**Step IV:** 18 pot 24 over milk goal 36 53
**Step V:** 18 pot 24 over 36 milk goal 53
**Step VI:** 18 pot 24 over 36 milk 53 goal
Hence Step V is the last but one.

**118.** 1; **Step III:** 36 win 44 95 86 ultra box queen
**Step IV:** 36 win 44 ultra 95 86 box queen
**Step V:** 36 win 44 ultra 86 95 box queen
**Step VI:** 36 win 44 ultra 86 queen 95 box
Hence 6 - 3 = 3 more steps will be required.

**119.** 1; **Input:** new 22 model 27 pump 38 11 join
**Step I:** 11 new 22 model 27 pump 38 join
**Step II:** 11 pump new 22 model 27 38 join
**Step III:** 11 pump 22 new model 27 38 join
**Step IV:** 11 pump 22 new 27 model 38 join

**(120-124):** From the last step it is clear that two alternate series: a no. series and a word series are established. The no. series is in ascending order, while the word series follows the rule of English dictionary. The word which appears later in the dictionary comes first in the series.
To establish the series, first the word, which appears later in the dictionary comes at the first position and the rest shift one position rightwards. Similarly, the least no. comes at the second position and the rest shift one position rightwards. The process continues until the required series is set up.

**120.** 4; Previous step can't be determined.

**121.** 1; Last step can be written directly.

**122.** 2; **Input:** Mission impossible 2 13 7 oscar winner 19
**Step I:** Winner mission impossible 2 13 7 oscar 19
**Step II:** Winner 2 mission impossible 13 7 oscar 19
**Step III:** Winner 2 oscar mission impossible 13 7 19
**Step IV:** Winner 2 oscar 7 mission impossible 13 19
**Step V:** Winner 2 oscar 7 mission 13 impossible 19

**123.** 3; **Input:** Seven Razor Fifty 50 12 7 One 1
**Step I:** Seven 1 Razor Fifty 50 12 7 One
**Step II:** Seven 1 Razor 7 Fifty 50 12 One
**Step III:** Seven 1 Razor 7 One Fifty 50 12
**Step IV:** Seven 1 Razor 7 One 12 Fifty 50
Hence, step III is the penultimate step.

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**124.** 2; **Step II:** where 9 here 18 there 12 near 17
**Step III:** where 9 there here 18 12 near 17
**Step IV:** where 9 there 12 here 18 near 17
**Step V:** where 9 there 12 near here 18 17

**(125-131):** In the first step the word that comes first in the reverse alphabetical order comes to the first place and the rest of the line shifts rightward. In the next step, the largest number occupies the next place and the rest of the line shifts rightward. This goes on alternately till the words get arranged in the reverse alphabetical order and the numbers in a descending order.

**125.** 3; **Input:** 20 ask never 35 62 84 tall grass
**Step I:** tall 20 ask never 35 62 84 grass
**Step II:** tall 20 never ask 35 62 84 grass
**Step III:** tall 20 never 35 ask 62 84 grass
**Step IV:** tall 20 never 35 grass ask 62 84
**Step V:** tall 20 never 35 grass 62 ask 84
Since Step V is the last step, step IV will be the last but one.

**126.** 4; The previous steps can't be determined in a non-cyclical rearrangement.

**127.** 3; **Step III:** yes 15 ultra 96 73 52 home rest
**Step IV:** yes 15 ultra 52 96 73 home rest
**Step V:** yes 15 ultra 52 home 96 73 rest
**Step VI:** yes 15 ultra 52 home 73 96 rest
**Step VII:** yes 15 ultra 52 home 73 rest 96
Hence 7 - 3 = 4 more steps will be required.

**128.** 1; **Input:** 49 box store 84 63 on door 37
**Step I:** store 49 box 84 63 on door 37
**Step II:** store 37 49 box 84 63 on door
**Step III:** store 37 on 49 box 84 63 door
**Step IV:** store 37 on 49 door box 84 63
**Step V:** store 37 on 49 door 63 box 84

**129.** 1; **Input:** slow wheel 32 57 high lake 12 46
**Step I:** wheel slow 32 57 high lake 46
**Step II:** wheel 12 slow 32 57 high lake 12 46
**Step III:** wheel 12 slow 32 lake 57 high 46
**Step IV:** wheel 12 slow 32 lake 46 57 high
**Step V:** wheel 12 slow 32 lake 46 high 57

**130.** 3; **Step IV:** year 14 team 22 63 54 goal house
**Step V:** year 14 team 22 house 63 54 goal
**Step VI:** year 14 team 22 house 54 63 goal
**Step VII:** year 14 team 22 house 54 goal 63

**131.** 4; **Input:** bag full 32 84 27 coin new 56
**Step I:** new bag full 32 84 27 coin 56
**Step II:** new 27 bag full 32 84 coin 56
**Step III:** new 27 full bag 32 84 coin 56
**Step IV:** new 27 full 32 bag 84 coin 56
**Step V:** new 27 full 32 coin bag 84 56
**Step VI:** new 27 full 32 coin 56 bag 84

**(132-137):** In step I, the largest number goes to the extreme left and the rest of the line shifts rightwards. In the next step the word that comes first in alphabetical order goes to the second position from the left and the rest of the line shifts rightwards. Thus the numbers and the words get arranged alternately till all the numbers are in descending order and all the words in alphabetical order.

**132.** 3; **Input:** show 51 36 new far 81 46 goal
**Step I:** 81 show 51 36 new far 46 goal
**Step II:** 81 far show 51 36 new 46 goal
**Step III:** 81 far 51 show 36 new 46 goal
**Step IV:** 81 far 51 goal show 36 new 46
**Step V:** 81 far 51 goal 46 show 36 new
**Step VI:** 81 far 51 goal 46 new show 36
**Step VII:** 81 far 51 goal 46 new 36 show
Thus step VI will be the last but one.

**133.** 5; **Input:** home turf 39 24 86 44 roll over
**Step I:** 86 home turf 39 24 44 roll over
**Step II:** 86 home 44 turf 39 24 roll over
**Step III:** 86 home 44 over turf 39 24 roll
**Step IV:** 86 home 44 over 39 turf 24 roll
**Step V:** 86 home 44 over 39 roll turf 24
**Step VI:** 86 home 44 over 39 roll 24 turf
Thus step VI will be the last.

**134.** 1; **Step II:** 76 ask 12 32 begin over join 42
**Step III:** 76 ask 42 12 32 begin over join
**Step IV:** 76 ask 42 begin 12 32 over join
**Step V:** 76 ask 42 begin 32 12 over join
**Step VI:** 76 ask 42 begin 32 join 12 over
Thus 6 - 2 = 4 more steps will be required.

**135.** 2; **Step IV:** 58 box 47 dew 15 21 town pot
**Step V:** 58 box 47 dew 21 15 town pot
**Step VI:** 58 box 47 dew 21 pot 15 town
Thus step VI will be last.

**136.** 4; We can't proceed backward.

**137.** 5; **Input:** buy win task 52 38 43 door 12
**Step I:** 52 buy win task 38 43 door 12
**Step II:** 52 buy 43 win task 38 door 12
**Step III:** 52 buy 43 door win task 38 12
**Step IV:** 52 buy 43 door 38 win task 12

**(138-143):** In step I, the smallest number goes to the extreme left and the rest of line shifts rightward. In the next step the word that comes first in the reverse alphabetical order goes to the second position from the left and the rest of the line shifts rightward. Thus, the numbers and the words get arranged alternately till all the numbers are in ascending order and all the words in reverse alphabetical order.

**138.** 3; **Input:** 89 bind 32 goal house 61 12 joy
**Step I:** 12 89 bind 32 goal house 61 joy
**Step II:** 12 joy 89 bind 32 goal house 61
**Step III:** 12 joy 32 89 bind goal house 61
**Step IV:** 12 joy 32 house 89 bind goal 61
**Step V:** 12 joy 32 house 61 89 bind goal
**Step VI:** 12 joy 32 house 61 goal 89 bind

**139.** 3; **Step II:** 15 yes 62 51 48 talk now gone
**Step III:** 15 yes 48 62 51 talk now gone
**Step IV:** 15 yes 48 talk 62 51 now gone
**Step V:** 15 yes 48 talk 51 62 now gone
**Step VI :** 15 yes 48 talk 51 now 62 gone

**140.** 5; **Step III:** 21 victory 30 joint 64 47 all gone
**Step IV:** 21 victory 30 joint 47 64 all gone
**Step V:** 21 victory 30 joint 47 gone 64 all
5 - 3 = 2 more steps will be required.

**141.** 5; **Input:** win 92 task 73 59 house range 34
**Step I:** 34 win 92 task 73 59 house range
**Step II:** 34 win 59 92 task 73 house range
**Step III:** 34 win 59 task 92 73 house range
**Step IV:** 34 win 59 task 73 92 house range

**142.** 5; **Input:** save 21 43 78 them early 36 for
**Step I:** 21 save 43 78 them early 36 for
**Step II:** 21 them save 43 78 early 36 for
**Step III:** 21 them 36 save 43 78 early for
**Step IV:** 21 them 36 save 43 for 78 early
Hence step III will be the last but one.

**143.** 2; **Input:** desire 59 63 all few 38 46 zone
**Step I:** 38 desire 59 63 all few 46 zone
**Step II:** 38 zone desire 59 63 all few 46

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**Step III:** 38 zone 46 desire 59 63 all few
**Step IV:** 38 zone 46 few desire 59 63 all
**Step V:** 38 zone 46 few 59 desire 63 all

**(144-148):** In the first step, the largest number comes to the first position and the remaining line shifts rightward. In the next step, the word that comes first in the alphabetical order goes on to occupy the second position, pushing the rest of the line rightward. This goes on alternately till all the numbers are arranged in a descending order and all the words alphabetically at alternate positions.

**144.** 4; **Input:** how was your stay 56 25 36 64
**Step I:** 64 how was your stay 56 25 36
**Step II:** 64 how 56 was your stay 25 36
**Step III:** 64 how 56 stay was your 25 36
**Step IV:** 64 how 56 stay 36 was your 25
**Step V:** 64 how 56 stay 36 was 25 your
Since the line gets fully arranged in step V, there will be no step VI.

**145.** 3; **Input:** power fail now 52 24 75 gate 34
**Step I:** 75 power fail now 52 24 gate 34
**Step II:** 75 fail power now 52 24 gate 34
**Step III:** 75 fail 52 power now 24 gate 34
**Step IV:** 75 fail 52 gate power now 24 34
**Step V:** 75 fail 52 gate 34 power now 24
**Step VI:** 75 fail 52 gate 34 now power 24
**Step VII:** 75 fail 52 gate 34 now 24 power
Hence Step VI will be the last but one.

**146.** 4; We can't proceed backward.

**147.** 1; **Step II:** 75 down 16 24 farm eager 62 sky
**Step III:** 75 down 62 16 24 farm eager sky
**Step IV:** 75 down 62 eager 16 24 farm sky
**Step V:** 75 down 62 eager 24 16 farm sky
**Step VI:** 75 down 62 eager 24 farm 16 sky
Hence 6 - 2 = 4 more steps will be required.

**148.** 3; **Input:** 14 35 when they came 61 48 home.
**Step I:** 61 14 35 when they came 48 home
**Step II:** 61 came 14 35 when they 48 home
**Step III:** 61 came 48 14 35 when they home
**Step IV:** 61 came 48 home 14 35 when they
**Step V:** 61 came 48 home 35 14 when they
**Step VI:** 61 came 48 home 35 they 14 when

**(149-154):** In the first step, the word that comes first in the reverse alphabetical order comes to the first place and the rest of the line shifts rightward. In the next step, the largest number occupies the next place and the rest of the line shifts rightward. This goes on alternately till the words get arranged in the reverse alphabetical order and the numbers in a descending order.

**149.** 2; **Step III:** year 92 ultra 15 23 strive house 39
**Step IV:** year 92 ultra 39 15 23 strive house
**Step V:** year 92 ultra 39 strive 15 23 house
**Step VI:** year 92 ultra 39 strive 23 15 house
**Step VII:** year 92 ultra 39 strive 23 house 15
Hence 7 - 3 = 4 more steps will be required.

**150.** 3; **Input:** any how 49 24 far wide 34 69
**Step I:** wide any how 49 24 far 34 69
**Step II:** wide 69 any how 49 24 far 34
**Step III:** wide 69 how any 49 24 far 34
**Step IV:** wide 69 how 49 any 24 far 34
**Step V:** wide 69 how 49 far any 24 34
**Step VI:** wide 69 how 49 far 34 any 24
Hence Step V will be the last but one.

**151.** 4; We can't proceed backward.

**152.** 4; **Input:** play over 49 37 12 match now 81
**Step I:** play 81 over 49 37 12 match now
**Step II:** play 81 over 49 now 37 12 match
**Step III:** play 81 over 49 now 37 match 12
Since the line is already arranged, there will be no 4th step.

**153.** 2; **Step II:** war 58 box cart 33 49 star 24
**Step III:** war 58 star box cart 33 49 24
**Step IV:** war 58 star 49 box cart 33 24
**Step V:** war 58 star 49 cart box 33 24
**Step VI:** war 58 star 49 cart 33 box 24

**154.** 4; **Input:** shower fall water 34 51 67 98 goal
**Step I:** water shower fall 34 51 67 98 goal
**Step II:** water 98 shower fall 34 51 67 goal
**Step III:** water 98 shower 67 fall 34 51 goal
**Step IV:** water 98 shower 67 goal fall 34 51
**Step V:** water 98 shower 67 goal 51 fall 34

**(155-159):** In the first step, the word that comes first in the alphabetical order shifts to the leftmost position, while the remaining line shifts rightward. In the next step, the largest number shifts to the second position from left, pushing the remaining line rightward. This goes on alternately till the words get arranged in an alphabetical order and the numbers in a descending order at alternate positions.

**155.** 3; **Step III:** bond 86 goal 12 33 like high 46
**Step IV:** bond 86 goal 46 12 33 like high
**Step V:** bond 86 goal 46 high 12 33 like
**Step VI:** bond 86 goal 46 high 33 12 like
**Step VII:** bond 86 goal 46 high 33 like 12

**156.** 5; **Input:** mind new 27 35 19 59 own tower
**Step I:** mind 59 new 27 35 19 own tower
**Step II:** mind 59 new 35 27 19 own tower
**Step III:** mind 59 new 35 own 27 19 tower
**Step IV:** mind 59 new 35 own 27 tower 19
Hence step III will be the last but one.

**157.** 3; **Step IV:** dear 63 few 51 16 29 yes now
**Step V:** dear 63 few 51 now 16 29 yes
**Step VI:** dear 63 few 51 now 29 16 yes
**Step VII:** dear 63 few 51 now 29 yes 16
Hence 7 - 4 = 3 more steps will be required.

**158.** 4; We can't proceed backward.

**159.** 3; **Input:** war 52 and peace 43 16 now 24
**Step I:** and war 52 peace 43 16 now 24
**Step II:** and 52 war peace 43 16 now 24
**Step III:** and 52 now war peace 43 16 24
**Step IV:** and 52 now 43 war peace 16 24
**Step V:** and 52 now 43 peace war 16 24
**Step VI:** and 52 now 43 peace 24 war 16

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## Exercise–3

**(1-9):**
**Input:** held nature yeast rich win alter infer lost so done
**Step I:** alter held nature yeast rich win infer lost so done
**Step II:** alter done held nature yeast rich win infer lost so
**Step III:** alter done held infer nature yeast rich win lost so
**Step IV:** alter done held infer lost nature yeast rich win so
**Step V:** alter done held infer lost nature rich yeast win so
**Step VI:** alter done held infer lost nature rich so yeast win
**Step VII:** alter done held infer lost nature rich so win yeast

**1.** 4 **2.** 3
**3.** 5; fourth from the left end or seventh from the right end.
**4.** 1 **5.** 2
**(6-9):** **Step I:** D
**Step II:** B
**Step III:** A
**Step IV:** E
**Step V:** C
**6.** 5 **7.** 5 **8.** 5 **9.** 3

**(10-17):** After careful analysis of the given input and various steps of rearrangement, it is evident that the numbers are rearranged in the middle in descending order and words are arranged in alphabetical order from the left and right. The words beginning with vowels are rearranged from the left in alphabetical order and the words beginning with consonants are rearranged from the right in the reverse alphabetical order.

**(10-14):**
**Input:** unique 84 can 77 open 86 quick 13 base 53 amiss 11 equal 98 start
**Step I:** amiss unique 84 can 77 open 86 13 base 53 11 equal 98 quick start
**Step II:** amiss equal unique 84 77 open 86 13 base 53 11 98 can quick start
**Step III:** amiss equal open unique 84 77 86 13 53 11 98 base can quick start
**Step IV:** amiss equal open unique 98 84 77 86 13 53 11 base can quick start
**Step V:** amiss equal open unique 98 86 84 77 13 53 11 base can quick start
**Step VI:** amiss equal open unique 98 86 84 77 53 13 11 base can quick start

**10.** 5; None of these
**11.** 4; 98 would be fifth from the right in step III.
**12.** 1; Option (1) is the last step.
**13.** 5; Six steps
**14.** 4; It is step IV.

**(15-17):**
**Step I:** (C) arrival 16 44 28 on 66 finish match
**Step II:** (A) arrival on 16 44 28 66 finish match
**Step III:** (E) arrival on 66 16 44 28 finish match
**Step IV:** (D) arrival on 66 44 16 28 finish match
**Step V:** (B) arrival on 66 44 28 16 finish match
**15.** 1; A is the step II.
**16.** 5; E is the step III.
**17.** 3; C is the step I.

**(18-22):** After careful analysis of the given input and various steps of arrangement it is evident that in each step one word and one number are rearranged. The words are rearranged from the left in alphabetical order but in reverse order while the numbers are rearranged in descending order from the right.

**(18-19):**
**Input:** always 19 give 21 84 for 62 14 worthy cause
**Step I:** worthy always 19 give 21 for 62 14 cause 84
**Step II:** worthy give always 19 21 for 14 cause 62 84
**Step III:** worthy give for always 19 14 cause 21 62 84
**Step IV:** worthy give for cause always 14 19 21 62 84
**18.** 4; Option (4) is the Step III.
**19.** 3; Four steps are needed to complete the arrangement.

**(20-22):**
**Input:** 50 62 tips on 67 how can 42 stay young 17 89 forever 03
**Step I:** young 50 62 tips on 67 how can 42 stay 17 forever 03 89
**Step II:** young tips 50 62 on how can 42 stay 17 forever 03 67 89
**Step III:** young tips stay 50 on how can 42 17 forever 03 62 67 89
**Step IV:** young tips stay on how can 42 17 forever 03 50 62 67 89
**Step V:** young tips stay on how forever can 17 03 42 50 62 67 89
**Step VI:** young tips stay on how forever can 03 17 42 50 62 67 89
**20.** 1; It is Step III.
**21.** 2; 42 is at the fifth position from the right end in Step V.
**22.** 1; Option (1) is the last step.

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