

# 100 must do high level Input Output



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

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 questions 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)

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 step 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):

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

# 100 must do high level Input Output



6. (5) 7. (4) 8. (2) 9. (3) 10. (3)

Directions (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. (All the numbers are two digits numbers)

Input: take 61 26 mock boom 88 81 47 work known inch 36 69 cold.

Step I: 26 take 61 mock 88 81 47 work known inch 36 69 cold boom.

Step II: 36 26 take 61 mock 88 81 47 work known inch 69 boom cold.

Step III: 47 36 26 take 61 mock 88 81 work known 69 boom cold inch.

Step IV: 61 47 36 26 take mock 88 81 work 69 boom cold inch known.

Step V: 69 61 47 36 26 take 88 81 work boom cold inch known mock.

Step VI: 81 69 61 47 36 26 88 work boom cold inch known mock take.

Step VII: 88 81 69 61 47 36 26 boom cold inch known mock take

work.

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.

Input: 89 what rose 19 46 niece dream lotus game 61 23 unlucky 71 97 (All the numbers are two digits numbers) .

Q1. Which step number is the following output?

46 23 19 89 what rose niece 61 unlucky 97 71 game dream lotus.

- (a) Step V
- (b) Step VI
- (c) Step IV
- (d) Step III
- (e) There is no such step

Q2. Which word/number would be at 5th position from the right in Step V?

- (a) 19
- (b) 97
- (c) game
- (d) dream
- (e) what

Q3. How many elements (words or numbers) are there between 'game' and '46' as they appear in the last step of the output?

- (a) One
- (b) Three
- (c) Four
- (d) Five
- (e) Seven

Q4. Which of the following represents the position of 'what' in the fourth step?

- (a) Eighth from the left
- (b) Fifth from the right
- (c) Sixth from the left
- (d) Fifth from the left
- (e) Seventh from the left

Q5. Which word/number would be at 3rd position from the right in Step IV?

- (a) 19
- (b) 97

- (c) game
- (d) dream
- (e) what

Directions (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.

Input: persons immediate determined exactly circle opportunities 60 75 80 30 10

Step I: determined persons immediate exactly circle opportunities 60 75 80 10 30

Step II: determined persons circle immediate exactly opportunities 75 80 10 30 60

Step III: determined persons circle immediate opportunities exactly 80 10 30 60 75

Step IV: determined persons circle opportunities immediate exactly 10 30 60 75 80

And step IV 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: executives consumer different information machine arrangements 25 43 73 82 95

Q6. How many steps will be required to complete the given arrangement?

- (a) Five
- (b) Six
- (c) Seven
- (d) Four
- (e) None of the above

Q7. Which of the following is the third element from the left in step V?

- (a) Consumer
- (b) Machine
- (c) Executives
- (d) 73
- (e) None of the above

Q8. Which of the following is step III of the given input?

- (a) Different consumer executives information machine arrangements 73 82 95 25 43
- (b) Different consumer machine executives information arrangements 82 95 25 43 73
- (c) Different consumer machine arrangements executives information 95 25 43 73 82
- (d) Different consumer executives machine information arrangements 25 43 73 82 95
- (e) None of the above

Q9. What is the position of 'arrangements' from the left end in the last step of the output?

- (a) Fifth
- (b) Sixth
- (c) Fourth
- (d) Seventh
- (e) None of the above

- Q10. Which of element is third to the right of 'information' in step IV?  
 (a) Machine  
 (b) 43  
 (c) 25  
 (d) 73  
 (e) None of the above

Solutions (1-5):

Logic: In every step a number is arranged on the left end and a word on the right end. We begin with the smallest number, then the second smallest, and so on, till all the numbers are arranged in descending order. Words are arranged in the alphabetical order.

Input :89 what rose 19 46 niece dream lotus game 61 23 unlucky 71 97.

Step I : 19 89 what rose 46 niece lotus game 61 23 unlucky 71 97 dream.

Step II : 23 19 89 what rose 46 niece lotus 61 unlucky 71 97 dream game.

Step III : 46 23 19 89 what rose niece 61 unlucky 71 97 dream game lotus.

Step IV : 61 46 23 19 89 what rose unlucky 71 97 dream game lotus niece.

Step V : 71 61 46 23 19 89 what unlucky 97 dream game lotus niece rose.

Step VI : 89 71 61 46 23 19 what 97 dream game lotus niece rose unlucky.

Step VII : 97 89 71 61 46 23 19 dream game lotus niece rose unlucky what.

E D B C C

Solutions (6-10):

Logic: The machine rearranges one word and one number in each step. The words are rearranged from the left end and the numbers are rearranged on the right. First, the words starting from consonants are rearranged according to the decreasing order of their length and then the words starting from vowels are rearranged according to the decreasing order of their length. The numbers are rearranged in ascending order on the right end.

Input:executives consumer different information machine arrangements 25 43 73 82 95

Step I: different executives consumer information machine arrangements 43 73 82 95 25

Step II:different consumer executives information machine arrangements 73 82 95 25 43

Step III:different consumer machine executives information arrangements 82 95 25 43 73

Step IV: different consumer machine arrangements executives information 95 25 43 73 82

Step V: different consumer machine arrangements information executives 25 43 73 82 95

A B B C B

Directions (6-10): 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

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

6. 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

7. 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

8. 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

9. 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

10. 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

Solutions (6-10):

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

6. (3) 7. (1) 8. (1) 9. (1) 10. (5)

Direrctions (Q. Nos. 1-5): A given arrangement machine , when given a particular input, rearranges it following a particular rule in each step .

# 100 must do high level Input Output



The following is the illustration of the input and the steps of arrangement:

Input : 17, 19, 23, 7, 32, 26, 13  
Step I : 24, 26, 30, 14, 39, 33, 20  
Step II : 196, 256, 400, 16, 841, 529, 100  
Step III : 55, 61, 73, 25, 100, 82, 43  
Step IV : 289, 361, 529, 49, 1024, 676, 169  
Step V : 256, 324, 484, 36, 961, 625, 144  
Step VI : 26, 28, 32, 16, 41, 35, 22  
Step VI is the last step.

1. The third Step of a given input is  
52, 58, 70, 19, 103, 85, 49

What will be Step IV of the input?

- 1) 289, 361, 529, 25, 1027, 784, 196.
- 2) 256, 324, 484, 25, 1089, 729, 225.
- 3) 256, 324, 529, 25, 1027, 784, 196
- 4) 289, 361, 529, 25, 1027, 784, 196
- 5) None of these

2. What would be Step III for the following input?

- 11, 12, 16, 21, 31, 24, 18.
- 1) 36, 39, 51, 65, 95, 74, 56.
  - 2) 36, 39, 51, 66, 96, 75, 57.
  - 3) 37, 40, 52, 67, 97, 76, 58.
  - 4) 38, 41, 53, 69, 98, 77, 59.
  - 5) None of these

3. Step IV of a given input is  
25, 81, 100, 324, 441, 729, 256.

What will be the input?

- 1) 6, 10, 12, 19, 22, 28, 17.
- 2) 5, 9, 11, 18, 21, 27, 16.
- 3) 4, 8, 10, 17, 20, 26, 15.
- 4) 7, 11, 13, 20, 23, 29, 18.
- 5) None of these

4. In How Many steps would the following arrangement yielded by the given input?

input: 6, 10, 12, 19, 22, 28, 17.

Arrangement: 22, 34, 40, 61, 70, 88, 55

- 1) 2
- 2) 5
- 3) 4
- 4) 3
- 5) None of these

5. Step IV of a given input is  
25, 81, 100, 324, 441, 729, 256.

What will be the input?

- 1) 6, 10, 12, 19, 22, 28, 17.
- 2) 5, 9, 11, 18, 21, 27, 16.
- 3) 7, 11, 13, 20, 23, 29, 18.
- 4) 4, 8, 10, 17, 20, 26, 15.
- 5) None of these

Directions (Q. Nos. 6-10): A given arrangement machine, when given a particular input, rearranges it following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:

Input: Ran Om Ada Pra Jit Kash Rsh

Step I: Pra Ada Om Rsh Kash Jit Ran

Step II: Rsh Om Ada Ran Jit Kash Pra

Step III: Rsh Kash Ada Ran Jit Om Pra

Step IV: Rsh Kash Jit Ran Ada Om Pra

Step V: Ran Jit Kash Pra Om Ada Rsh

And so on goes the machine. Study the logic and answer the questions that follow.

6. Given the following input, what would be step VI of the input?

Input: Anand Roop Chaudhary Lives At Deputy Para.

- 1) Lives Deputy Para At Roop Chaudhary Anand
- 2) Lives Deputy At Para Chaudhary Roop Anand
- 3) Deputy Lives Para At Chaudhary Roop Anand
- 4) Lives Deputy Para At Chaudhary Roop Anand
- 5) None of these

7. In which step the arrangement be same as the input?

- 1) VII
- 2) VIII
- 3) IX
- 4) Can't be possible
- 5) None of these

8. Given the following

Input : Ranjit and Sanjit are reading very seriously

What Step will be the following arrangement?

Arrangement: are and reading seriously Sanjit very Ranjit

- 1) VII
- 2) VI
- 3) VIII
- 4) I
- 5) None of these

9. If step VII of a given input be 'Ajit Madhav and Sanjit are good friends', what is the step III of that input?

- 1) Madhav are good and friends Sanjit Ajit
- 2) Madhav good are Ajit friends and Sanjit
- 3) Sanjit good are friends and Madhav Ajit
- 4) Sanjit are good friends Madhav and Ajit
- 5) None of these

10. If step VI of a given input be 'Ashok and Pranab are preparing for banks', what would be the input?

- 1) preparing for banks Ashok Pranab and are
- 2) banks preparing for Ashok Pranab and are
- 3) for banks preparing Pranab Ashok and are
- 4) banks for preparing Ashok Pranab and are
- 5) None of these

Answers

(1-5)

Here the rule followed is:

Step I: Add 7 to each number of the input.

Step II: Subtract 10 from each number of the input and square it.

Step III: Multiply each number of the INPUT by 3 and add 4 to it.

Step IV: Square each number of the INPUT.

Step V: Subtract each number of the input and square it.

Step VI: Add 9 to each number of the input

Answers are

- 1) 2
- 2) 3
- 3) 5
- 4) 4
- 5) 5

(6-10)

Input to step I: the first word becomes Last, the second and third words are interchanged, fourth word becomes first, fifth and sixth words are interchanged and seventh word becomes fourth.

From Step I to Step II: Same as input to step I.

From Step II to Step III: the second and the sixth words interchange places.

From Step III to Step IV: The third and the fifth words interchange places.

These steps are repeated there after. For convenience, we plot the movement of each word in each step by the numbers assigned to them in the input, i.e. Ran- 1, Om-2, Ada-3, Pra-4, Jit-5, Kash-6, Rsh-7.

Then We have

INPUT : 1 2 3 4 5 6 7

Step I: 4 3 2 7 6 5 1

Step II: 7 2 3 1 5 6 4

Step III: 7 6 3 1 5 2 4

Step IV: 7 6 5 1 3 2 4

Step V: 1 5 6 4 2 3 7

Step VI: 4 6 5 7 3 2 1

Step VII: 4 2 5 7 3 6 1

Step VIII: 4 2 3 7 5 6 1

Step IX : 7 3 2 1 6 5 4

Step X: 1 2 3 4 5 6 7

Answers are

6) 1      7) 5; In step X arrangement will be same as the input

8) 1      9) 3      10) 4

Directions (1-5): Study the following information carefully to answer the given 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 the input and rearrangement.

Input: variety 13 enough 7 12 maximum union 24 tree 4

Step I: enough variety 13 7 12 maximum union 24 tree 4

Step II: enough variety 13 12 maximum union 24 tree 4 7

Step III: enough maximum variety 13 12 union 24 tree 4 7

Step IV: enough maximum variety 13 union 24 tree 4 7 12

Step V: enough maximum union variety 13 24 tree 4 7 12

Step VI: enough maximum union variety 24 tree 4 7 12 13

Step VII: enough maximum union tree variety 24 4 7 12 13

Step VIII: enough maximum union tree variety 24 7 12 13 4

Step IX: enough maximum union tree variety 7 12 13 4 24

And step IX is the last step of the above arrangement. As per the rules followed in the above step, find out the appropriate step for the given input.

Input: steps 22 onion apt 19 tribe 4 new 18 13

Q1. How many steps will be required to complete the rearrangement of the above input?

- (a) Six
- (b) Eight
- (c) Ten
- (d) more than ten
- (e) Both 3 and 4

Q2. Which step number is the following output?

apt new onion steps tribe 4 18 13 19 22

- (a) Step V
- (b) Step VI
- (c) Step IX
- (d) Step X

5) Other than given options

Q3. How many elements are there between 'new' and '18' in step VI ?

- (a) 5
- (b) 2
- (c) 3
- (d) 6
- (e) 4

Q4. Which of the following steps would be the last step but one?

- (a) Step VIII
- (b) Step X
- (c) Step IX
- (d) Step VII
- (e) Other than given options

Q5. What is the position of 'tribe' to the left of '13' in step VI?

- (a) Fifth
- (b) Seventh
- (c) Ninth
- (d) Third
- (e) Other than given options

Directions (6-10): Study the following information carefully to answer the given questions:

A word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement.

Input: hearing 15 integrity 27 xenon 79 glow 23 century 58 18 goal.

Step I: glow hearing 15 integrity 27 xenon 23 century 58 18 goal 79.

Step II: glow goal hearing 18 integrity 27 xenon 23 century 18 58 79.

Step III: glow goal xenon hearing 15 integrity 23 century 18 27 58 79.

Step IV: glow goal xenon century hearing 15 integrity 18 23 27 58 79.

Step V: glow goal xenon century hearing integrity 15 18 23 27 58 79.

And step V is the last step of the above arrangement. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: 20 homeopathic 47 carbon 78 urban 27 phloem 67 60 duplicate brochure.

Q6. Which step number would be the following output?

urban carbon phloem brochure 20 homeopathic 27 duplicate 47 60 67 78

- (a) step III
- (b) step IV
- (c) step V
- (d) there will be no such step
- (e) Other than given options

Q7. Which of the following would be the last step of the rearrangement?

- (a) step IV
- (b) step V
- (c) step VI
- (d) step VII
- (e) Other than given options

Q8. If in the last step all the words get rearranged in alphabetical order, which of the following words retain its original position?

- (a) duplicate
- (b) urban
- (c) phloem
- (d) carbon
- (e) Other than given options

Q9. Which of the following would be at the 7th position from the left in step III?

- (a) 27
- (b) duplicate
- (c) 47
- (d) phloem
- (e) Other than given options

Q10. In step IV, if 'urban' is related to 78 and 'carbon' is related to '67' then '20' is related to which of the following, if the same pattern is followed?

- (a) 47
- (b) 60
- (c) duplicate
- (d) 27
- (e) homeopathic

Directions (11-15): 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 it rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement.

Input: far east 37 49 27 ox dusk 39 ink 42

Step I: east far 37 49 ox dusk 39 ink 42 27

Step II: east ink far 49 ox dusk 39 42 27 37

Step III: east ink ox far 49 dusk 42 27 37 39

Step IV: east ink ox dusk far 49 27 37 39 42

Step V: east ink ox dusk far 27 37 39 42 49

And step V 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: 69 post ogle 52 49 array kite upper 42 58 stare 63

Q11. What is the position of 'upper' in step II?

- (a) Fifth from the right
- (b) Third from the right
- (c) Fifth from the left
- (d) Sixth from the left
- (e) Other than given options

Q12. Which step would be the following output?

array ogle upper 69 post kite 58 stare 63 42 49 52

- (a) Step III
- (b) Step IV
- (c) Step V
- (d) Step VI
- (e) Other than given options

Q13. Which of the following word/number would be at the seventh position from the right in the last step?

- (a) stare
- (b) 69
- (c) post
- (d) 49
- (e) ogle

Q14. How many steps will be required to complete the arrangement of the above input?

- (a) Five
- (b) Six
- (c) Seven
- (d) Eight
- (e) Other than given options

Q15. Which word/number will be fifth to the left of '58' in step III?

- (a) array
- (b) ogle
- (c) 49
- (d) post
- (e) 42

Solutions

1 to 5

Input : steps 22 onion apt 19 tribe 4 new 18 13

Step I : apt steps 22, onion 19 tribe 4 new 18 13

Step II: apt steps 22 onion tribe 4 new 18 13 19

Step III: apt new steps 22 onion tribe 4 18 13 19

Step IV: apt new steps onion tribe 4 18 13 19 22

Step V: apt new onion steps tribe 4 18 13 19 22

Step VI: apt new onion steps tribe 4 18 19 22 13

Step VII: apt new onion steps tribe 4 19 22 13 18

Step VIII: apt new onion steps tribe 19 22 13 18 4

S1. Ans.(b)

Sol. In the rearrangement words are arranged in ascending order from left to right as vowel comes first followed by consonant alternatively. Numbers are arranged according to the position of (last letter-1) of the arrangement in the previous step from left to right first number at the extreme right then seems and so on in each alternate step.

S2. Ans.(a)

S3. Ans.(e)

S4. Ans.(d)

S5. Ans.(a)

6 to 10

Input: 20 homeopathic pathic 47 carbon 78 urban 27 phloem 67 60 duplicate brochure.

Step I: urban 20 homeopathic 47 carbon 27 phloem 67 60 duplicate brochure 78.

Step II: urban carbon 20 homeopathic 47 27 phloem 60 duplicate brochure 67 78.

Step III: urban carbon phloem 20 homeopathic 47 27 duplicate brochure 60 67 78

Step IV: urban carbon phloem brochure 20 homeopathic 27 duplicate 47 60 67 78

Step V: urban carbon phloem brochure duplicate 20 homeopathic 27 47 60 67 78

StepVI: urban carbon phloem brochure duplicate homeopathic 20 27  
47 60 67 78

S6. Ans.(b) Sol. The words are rearranged in increasing order of their length and in case of a tie, they are arranged according to the English dictionary, from left to right. Numbers are rearranged in decreasing order from right to left. Each step arranges a word and a number.

S7. Ans.(c)

S8. Ans.(d)

S9. Ans.(a)

S10. Ans.(c)

11 to 15

Input: 69 post ogle 52 49 array kite upper 42 58 stare 63

Step I: array 69 post ogle 52 49 kite upper 58 stare 63 42

Step II: array ogle 69 post 52 kite upper 58 stare 63 42 49

Step III: array ogle upper 69 post kite 58 stare 63 42 49 52

Step IV: array ogle upper kite 69 post stare 63 42 49 52 58

Step V: array ogle upper kite post 69 stare 42 49 52 58 63

Step VI: array ogle upper kite post stare 42 49 52 58 63 69

S11. Ans.(e) Sol. In the arrangement, the words starts with vowels are arranged in alphabetical order and then consonants are been arranged again in alphabetical order; afterwards numbers are arranged in ascending order from left to right along with one word and a number in each step.

S12. Ans.(a)

S13. Ans.(a)

S14. Ans.(b)

S15. Ans.(b)

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 an input and rearrangement (All the numbers are two-digit numbers):

Input: 24 method 87 67 of data 34 collection 45 12 specified now

Step I: 12 method 87 67 of data 34 collection 45 specified now 24

Step II: 34 12 method 87 67 of data collection specified now 24 45

Step III: 67 34 12 method of data collection specified now 24 45 87

Step IV: collection 67 34 12 method of specified now 24 45 87 data

Step V: method collection 67 34 12 of specified 24 45 87 data now

Step VI: of method collection 67 34 12 24 45 87 data now specified  
And Step VI 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: chemical 68 11 reaction 87 is 21 hard to 53 92 detect

Q1. In which step are the elements 'to 92 detect 21' found in the same order?

(a) Sixth

(b) Third

(c) The given order of elements is not found in any step.

(d) Second

(e) Fifth

Q2. What is the position of '21' from the right end in the last step?

(a) Tenth

(b) Eighth

(c) Fifth

(d) Fourth

(e) Sixth

Q3. How many steps are required to complete the rearrangement of the given input?

(a) Five

(b) Six

(c) Seven

(d) Eight

(e) More than Seven

Q4. Which element is fifth to the left of the element which is ninth from the left end of the fourth step?

(a) 11

(b) 87

(c) 53

(d) reaction

(e) chemical

Q5. Which element is exactly between 'chemical' and '87' in the second step of the given arrangement?

(a) 53

(b) hard

(c) reaction

(d) is

(e) 68

Directions (6-10): Study the following information carefully and answer the questions given below:

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 an input and rearrangement. (All the numbers are two-digit numbers.)

Input: 38 role care 15 25 ball note down 42 45

Step I: 45 38 role care 15 25 note down 42 ball

Step II: 42 45 38 role 15 25 note down ball care

Step III: 38 42 45 role 15 25 note ball care down

Step IV: 25 38 42 45 role 15 ball care down note

Step V: 15 25 38 42 45 ball care down note role

Step VI: ball care down note role 6 6 7 9 11

And Step VI 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: level establish 56 relation given 48 52 find 37 justify 40 32

Q6. How many steps will be required to complete the arrangement?

(a) Six

(b) Seven

(c) Eight

(d) Nine

(e) None of the above

Q7. In which step are the elements 'relation 48 52 justify' found in the same order?

- (a) Fourth
- (b) Second
- (c) Third
- (d) The given order of elements is not found in any step.
- (e) None of the above

Q8. What is the position of '37' from the left end in the second last step?

- (a) Fifth
- (b) Fourth
- (c) Third
- (d) Sixth
- (e) None of the above

Q9. Which element is fourth to the left of the element which is tenth from the left end in the last step?

- (a) 4
- (b) level
- (c) 10
- (d) relation
- (e) None of the above

Q10. What is the position of 'find' from the right end in the last step?

- (a) Fifth
- (b) Fourth
- (c) Ninth
- (d) Tenth
- (e) Eleventh

Directions (11-15): Study 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 in each step. The following is an illustration of an input and its rearrangement:

Input: each 22 centre 35 28 face bat 37 18 hot let 20  
Step I: 37 each 22 centre 35 28 face 18 hot let 20 bat  
Step II: 35 37 each 22 28 face 18 hot let 20 bat centre  
Step III: 28 35 37 22 face 18 hot let 20 bat centre each  
Step IV: 22 28 35 37 18 hot let 20 bat centre each face  
Step V: 20 22 28 35 37 18 let bat centre each face hot  
Step VI: 18 20 22 28 35 37 bat centre each face hot let  
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: 19 gupta 38 was called 24 45 on 27 41 the day next 35

Q11. How many steps will be required to complete the given rearrangement?

- (a) Six
- (b) Four
- (c) Eight
- (d) Seven
- (e) None of the above

Q12. Which of the following elements is fourth from the right end in Step IV?

- (a) called
- (b) day
- (c) 35
- (d) 27
- (e) None of the above

Q13. How many elements are there between '19' and 'was' in the second-last step?

- (a) None
- (b) Ten
- (c) Nine
- (d) Twelve
- (e) None of the above

Q14. Which of the following represents the first two and the last two elements in the last step?

- (a) 27, 38; on, the
- (b) 27, 35; next, on
- (c) 19, 24; the, was
- (d) 24, 27; was, the
- (e) None of the above

Q15. Which step number is the following output?

- 38 41 45 19 was 24 on 27 the next 35 called day gupta
- (a) Step V
  - (b) Step III
  - (c) Step IV
  - (d) Step VI
  - (e) None of the above

Solution 1 to 5

Logic: The machine first rearranges numbers and then words. In Step I the smallest number goes to the left and the second smallest to the right. In the next step the third smallest number goes to the left and the fourth smallest to the right. And so on till all the numbers have been arranged.

After this we come to words. First the first word in alphabetical order goes to the left and the second word to the right. In the next step the third word in alphabetical order goes to the left and the fourth to the right. And so on till all the words have been arranged.

Input: chemical 68 11 reaction 87 is 21 hard to 53 92 detect  
Step I: 11 chemical 68 reaction 87 is hard to 53 92 detect 21  
Step II: 53 11 chemical reaction 87 is hard to 92 detect 21 68  
Step III: 87 53 11 chemical reaction is hard to detect 21 68 92  
Step IV: chemical 87 53 11 reaction is hard to 21 68 92 detect  
Step V: hard chemical 87 53 11 reaction to 21 68 92 detect is  
Step VI: reaction hard chemical 87 53 11 21 68 92 detect is to  
DEBAC

Solutions (6-10):

Logic: In each step numbers are arranged on the left, starting with the largest. Words are arranged on the right, starting with the first in alphabetical order. Thus, numbers get arranged in ascending order and words in alphabetical order. When this is done, word shift to the left in the last step; numbers are written as their sum of digits and these sums are written in ascending order.

Input: level establish 56 relation given 48 52 find 37 justify 40 32  
Step I: 56 level relation given 48 52 find 37 justify 40 32 establish



# 100 must do high level Input Output



Step II: 52 56 level relation given 48 37 justify 40 32 establish find  
Step III: 48 52 56 level relation 37 justify 40 32 establish find given  
Step IV: 40 48 52 56 level relation 37 32 establish find given justify  
Step V: 37 40 48 52 56 relation 32 establish find given justify level  
Step VI: 32 37 40 48 52 56 establish find given justify level relation  
Step VII: establish find given justify level relation 4 5 7 10 11 12  
BDEDE

Solutions (11-15):

Logic: In the first step, the largest number comes to the left and the first word in alphabetical order goes to the right. In the second step, the second largest number comes to the left and the second word in alphabetical order goes to the right. This goes on till number are arranged in ascending order and words in alphabetical order.

Input: 19 gupta 38 was called 24 45 on 27 41 the day next 35  
Step I: 45 19 gupta 38 was 24 on 27 41 the day next 35 called  
Step II: 41 45 19 gupta 38 was 24 on 27 the next 35 called day  
Step III: 38 41 45 19 was 24 on 27 the next 35 called day gupta  
Step IV: 35 38 41 45 19 was 24 on 27 the called day gupta next  
Step V: 27 35 38 41 45 19 was 24 the called day gupta next on  
Step VI: 24 27 35 38 41 45 19 was called day gupta next on the  
Step VII: 19 24 27 35 38 41 45 called day gupta next on the was  
DAACB

Input: oral 92 ox boy 43 ink 52 tall 75 text 37 63  
Step I: 63 oral 92 ox 43 ink 52 tall 75 text 37 boy  
Step II: 52 63 oral 92 ox 43 tall 75 text 37 boy ink  
Step III: 75 52 63 92 ox 43 tall text 37 boy ink oral  
Step IV: 43 75 52 63 92 tall text 37 boy ink oral ox  
Step V: 92 43 75 52 63 text 37 boy ink oral ox tall  
Step VI: 37 92 43 75 52 63 boy ink oral ox tall text

And step VI is the last step of the above arrangement. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: axe 29 37 that fox 92 make 73 engage 67 others 52

- Which word/number would be at fifth position from right end in step III?  
1) other 2) engage 3) 92 4) axe 5) make
- How many numbers and words are between '37' and 'axe' in step V?  
1) Five 2) Six 3) None 4) Two 5) One
- How many steps would be required to get the final output?  
1) Six 2) Four 3) Seven 4) Five 5) Nine
- Which of the following represents the position of 'engage' in the third step?  
1) Fifth from left 2) Third from right 3) Second from right  
4) Sixth from left 5) Second from left

5. Which step number is the following output?

'73 52 67 29 37 that 92 make others axe engage fox'

- 1) Step V 2) Step III 3) Step IV 4) Step II 5) There is no such step

Solution: 1. 5 2. 1 3. 1 4. 3 5. 2

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. (All the numbers are two digits 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 barn 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.

Input : 84 why sit 14 32 not best ink feet 51 27 vain 68 92  
(All the numbers are two digits numbers)

7. Which step number is the following output?  
32 27 14 84 why sit not 51 vain 92 68 feet best ink  
(A) Step V  
(B) Step VI  
(C) Step IV  
(D) Step III  
(E) There is no such stop

8. Which word/number would be at 5th position from the right in Step V?  
(A) 14  
(B) 92  
(C) feet  
(D) best  
(E) why

9. Which of the following represents the position of 'Why' in the fourth step??  
(A) Eighth from the left  
(B) Fifth from the right  
(C) Sixth from the left  
(D) Fifth from the left  
(E) Seventh from the left

10. How many elements (words or numbers) are there between 'feet' and '32' as they appear in the last step of the output?  
(A) One  
(B) Three  
(C) Four  
(D) Five  
(E) Seven

7. e 8. D 9. C 10. B