



Most Important Input Output Questions

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Direction (1-3): Read the given information and answer the 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.

Input: lime 36 build 78 89 prime 67 van broke 45 make 53

Step I: 89 lime 36 build 78 prime 67 van 45 make 53 broke

Step II: 78 89 lime 36 prime 67 van 45 make 53 broke build

Step III: 67 78 89 36 prime van 45 make 53 broke build lime

Step IV: 53 67 78 89 36 prime van 45 broke build lime make

Step V: 45 53 67 78 89 36 van broke build lime make prime

Step VI: 36 45 53 67 78 89 broke build lime make prime van

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: 39 come 52 pick fine 49 77 fear 42 wear 87 took.

Q1. Which step number is the following output?

87 39 52 pick fine 49 77 fear 42 wear took come 1. I

2. III
 3. VI
 4. IV
 5. There is no such step
 Ans1. 1. I

Q2. What is the position of "fear" from the right of "77" in the second – last step?

- eighth
 third
 fifth
- 5. III (II
- 4.ninth
- 5. seventh Ans2. 3. fifth

Q3. Which of the following is the fourth element to the right of "39" in step II ?

- 1. come
- 2. took
- 3. fear
- 4. 49
- 5. 42

Ans3. 4. 49

Explanation (1-3):

Pattern:

In this arrangement, we arrange the numbers and words in ascending order.

The arrangement of numbers starts from left end and words are arranged from right end.

Input: 39 come 52 pick fine 49 77 fear 42 wear 87 took.

Step I: 87 39 52 pick fine 49 77 fear 42 wear took come.

Step II: 77 87 39 52 pick fine 49 42 wear took come fear.

Step III: 52 77 87 39 pick 49 42 wear took come fear fine.

Step IV: 49 52 77 87 39 42 wear took come fear fine pick.

Step V: 42 49 52 77 87 39 wear come fear fine pick took.

Step VI: 39 42 49 52 77 87 come fear fine pick took wear.

Directions (4-6): 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. The following is an illustration of input and rearrangement.

Input: trim 55 27 risk ate 85 64 46 wise junk

Step I: trim 55 27 risk 85 64 46 wise junk ate **Step II:** trim 55 risk 85 64 46 wise junk 27 ate **Step III:** trim 55 risk 85 64 wise 46 junk 27 ate **Step IV:** trim 55 85 64 wise risk 46 junk 27 ate **Step V:** trim 85 64 wise 55 risk 46 junk 27 ate **Step VI:** 85 64 wise trim 55 risk 46 junk 27 ate **Step VII:** 85 wise 64 trim 55 risk 46 junk 27 ate

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Step VII 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: 97 then shock 24 45 nose bunk intel 61 38

Q4. Which of these words /numbers would be fourth (from left side) in Step IV for the input?

- 1.45
- 2. shock
- 3. 38
- 4. nose

5. None of these

Ans4. 1. 45

Q5. The following stands for which step of the rearrangement?

97 then 61 shock 45 nose 38 intel 24 bunk

- 1. Step IX
- 2. Step IV
- 3. Step VI
- 4. Step V
- 5. None of these
- Ans5. 3. Step VI

Q6. Which of the following would be Step II for the above input?

- 1. 97 then shock 45 61 nose 38 intel 24 bunk
- 2. 97 then shock 45 nose intel 61 38 24 bunk
- 3. 97 then 61 shock 45 nose 38 intel 24 bunk
- 4. 97 then shock 61 45 nose 38 intel 24 bunk
- 5. None of these

Ans6. 2. 97 then shock 45 nose intel 61 38 24 bunk

Explanation (4-6):

Logic:

In this question arrangement starts from the right end of the given input. In Step I, arrange one word in ascending order and in Step II, arrange one number in ascending order and so on....

Input: 97 then shock 24 45 nose bunk intel 61 38 Step I: 97 then shock 24 45 nose intel 61 38 bunk Step II: 97 then shocks 45 nose intel 61 38 24 bunk Step III: 97 then shock 45 nose 61 38 intel 24 bunk Step IV: 97 then shock 45 61 nose 38 intel 24 bunk Step V: 97 then shock 61 45 nose 38 intel 24 bunk Step VI: 97 then 61 shock 45 nose 38 intel 24 bunk

Direction (7-11): Read the following information carefully. And answer the following questions given below.

An input-output is given in different steps. Some mathematical operations are done in each step. No mathematical operation is repeated in next



Q7. What is the multiplication of all the numbers

- of step 3?
- 1. -31
- 2. -26
- 3. -23
- 4. -24
- 5. None of these
- **Ans7.** 4) -24

Q8. Which is the largest number obtained in step

- 1?
- 1. -13
- 2. 18
- 3. 21
- 4. None of these
- 5. 15

Ans8. 3) 21

Q9. If in step 1, the second digit of all the boxes is halved and then added the half digits, what is the result in step 1?

- 1. 4
- 2. 5
- 3. 3

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4. 6

5. None of these

Ans9. 1) 4

Q10. What is the sum of numbers in step 3?

- 1. 11
- 2. 5
- 3. 6
- 4. 4
- 5. None of these

Ans10. 2) 5

Q11. Which is the following number obtained in last step?

- 1. 3.5
- 2. 1.5
- 3. 2.5
- 4. -5.5
- 5. None of these

Ans11. 3) 2.5

Explanation (7-11):

Logic:

In Step 1, subtract the digits of 1st number from left and the digits of last number from right then subtract the digits of 2nd number from left and 2nd last number from right and so on.

In step 2, multiply the 1st digit of 1st number with the 1st digit of 2nd number then 2nd digits of 1st number with 2nd digits of 2nd number and multiply the 1st digit of 2nd number with 1st digit of 3rd number then 2nd digit of 2nd number with 2nd digit of 3rd number.

In Step 3, subtract the digits of second number from the digits of first number.

In Step 4, add both the digits and divide by 2.



Directions (12-16): Read the following information carefully. And answer the following 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 input and rearrangement. (All the numbers are two digit numbers.)

Input: 67 inner 31 campus 92 anchor 59 satire 52 jackson erony 21 79 unimax

Step I: anchor 67 inner 31 campus 92 59 satire 52 jackson erony 79 unimax 21

Step II: anchor 92 67 inner 31 campus 59 52 jackson erony 79 unimax satire 21

Step III: anchor 92 erony 67 inner campus 59 52 jackson 79 unimax 31 satire 21

Step IV: anchor 92 erony 79 67 inner campus 59 52 unimax jackson 31 satire 21

Step V: anchor 92 erony 79 inner 67 campus 59 unimax 52 jackson 31 satire 21

Step VI: anchor 92 erony 79 inner 67 59 unimax campus 52 jackson 31 satire 21

Step VII: anchor 92 erony 79 inner 67 unimax 59 campus 52 jackson 31 satire 21

Input: 51 carried 37 isometric 69 eclairs 42 narration 18 purpose 92 error taught 89

Q12. How many numbers are there between 'error' and 'narration' in step-IV?

- 1. Six
- 2. Four
- 3. Five
- 4. Three
- 5. None of these

Ans12. 2) Four

Q13. Which word/number is third to the right of eighth element from right end in step-III?

- 1. 51
- 2. Narration
- 3. Purpose
- 4. 89
- 5. None of these

Ans13. 3) Purpose

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Q14. How many steps are required to complete the given arrangement?

- 1. Four
- 2. Five
- 3. Six
- 4. Seven
- 5. More than seven
- Ans14. 4) Seven

Q15. If in certain way 'isometric' is related to 'narration' in step-II and 'carried' is related to '42' in step-V, then in the same way '89' is related to what in step-VI?

- 1. 51
- 2. Carried
- 3. Narration
- 4. 69
- 5. None of these

Ans15. 1) 51

Q16. Which of following is correct with respect to the position of '69' in step-V?

- 1. Seventh from the left end
- 2. Seventh from the right end
- 3. Third to the right of 89
- 4. Immediate right of 51
- 5. None is correct.

Ans16. 2) Seventh from the right end

Explanation (12-16):

First the vowels are arranged in alphabetical order and then consonant are arranged. The numbers are arranged in descending order.

In step-I first vowel in the alphabetical order is moved to left end and then smallest number is moved to the right end. In step-II the largest number is moved to left end and then the consonant word in descending alphabetical order is moved to the right end. The same procedure is continued till all the letters and numbers get rearranged.

Input: 51 carried 37 isometric 69 eclairs 42 narration 18 purpose 92 error taught 89

Step I: eclairs 51 carried 37 isometric 69 42 narration purpose 92 error taught 89 18
Step II: eclairs 92 51 carried 37 isometric 69 42 narration purpose error 89 taught 18

Step III: eclairs 92 error 51 carried isometric 69 42 narration purpose 89 37 taught 18
Step IV: eclairs 92 error 89 51 carried isometric 69 42 narration purpose 37 taught 18

Step V: eclairs 92 error 89 isometric 51 carried 69 narration 42 purpose 37 taught 18

Step VI: eclairs 92 error 89 isometric 69 51 carried narration 42 purpose 37 taught 18

Step VII: eclairs 92 error 89 isometric 69 carried 51 narration 42 purpose 37 taught 18

Direction (17-21): Read the following information carefully. And answer the following 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 input and rearrangement.

Input: reference 61 renaissance 72 struck 75 train 14 treatment.

Step I: renaissance reference 61 72 struck 75 train treatment 14.

Step II: reference renaissance 72 struck 75 train treatment 14 61.

Step III: treatment reference renaissance struck 75 train 14 61 72.

Step IV: train treatment reference renaissance struck 14 61 72 75.

Step V: struck train treatment reference renaissance 14 61 72 75.

Step V is the final step of given input.

Answer the following questions based on the following input: -

Input: Creative 53 experimental 63 trim 68 monchary 24 vaccine.

Q17. Which of the following element is 5th from right in Step II?

- 1. monchary
- 2.68
- 3. trim
- 4.63

5. None of these **Ans17. 2.** 68

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Q18. How many steps is required to get output?

- 1. Two
- 2. One
- 3. Three
- 4. Four
- 5. Five
- Ans18. 5. Five

Q19. What is the total sum of 5th element from left in step II and 2nd element from right in step II?

- 1.90
- 2.92
- 3.94
- 4.96

5. None of these

Ans19. 2. 92

Q20. Which of the following represent step IV of the given input?

1.experimental creative 53 63 trim 68 monchary vaccine 24.

2.creative experimental 63 trim 68 monchary vaccine 24 53.

3. vaccine creative experimental trim 68 monchary 24 53 63.

4. monchary vaccine creative experimental trim 24 53 63 68.

5.None of these

Ans20. 4. monchary vaccine creative experimental trim 24 53 63 68.

Q21. Which of the following element is 7th from left in Step V?

- 1.53
- 2.24
- 3. experimental
- 4. None of these
- 5.63
- Ans21. 1. 53

Explanation (17-21):

Logic: One word and one number is arranged in each step.

Word: In descending order from left according to number of vowels in each word.

Number: In ascending order from right according to total sum of numeral value of all digits of each number.

Input: Creative 53 experimental 63 trim 68 monchary 24 vaccine.

Step I: experimental creative 53 63 trim 68 monchary vaccine 24.

Step II: creative experimental 63 trim 68 monchary vaccine 24 53.

Step III: vaccine creative experimental trim 68 monchary 24 53 63.

Step IV: monchary vaccine creative experimental trim 24 53 63 68.

Step V: trim monchary vaccine creative experimental 24 53 63 68.

Direction (22-25): Read the following information carefully. And answer the following questions given below.

Number arrangement 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 rearrangement.

Input: 64 48 89 34 61 88 22 38 77 81

Step I: 21 64 48 89 61 88 38 77 81 33 Step II: 37 21 64 89 61 88 77 81 33 47 Step III: 63 37 21 89 88 77 81 33 47 62 Step IV: 78 63 37 21 89 81 33 47 62 87 Step V: 82 78 63 37 21 33 47 62 87 90 Step V, is the last step

Input: 93 57 74 18 41 28 87 78 67 71

Q22. How many numbers are there between 27 and the one which is 3rd to left of 94 in last step?

- 1. One
- 2. More than three
- 3. Three
- 4. None
- 5. Two
- Ans22. (4) None

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Q23. How many numbers are there between the one which is 5th from the left end and 93 in step II?

- 1. One
- 2. More than three
- 3. Three
- 4. None
- 5. Two

Ans23. (1) One

Q24. What is the position of 87 from the left end in second step?

- 1. First
- 2. Fifth
- 3. Second
- 4. Third
- 5. Sixth

Ans24. (2) Fifth

Q25. Which of the following number is 7th to the right of 42 in the III step?

- 1. 72
- 2. 78
- 3. 27
- 4. 58
- 5. None of these

Ans25. (4) 58 Explanation (22-25):

Logic:

In this number arrangement,

In Step I, the smallest number is arranged in left side and 2nd smallest number is arranged in right side.

In step II, the 3rd smallest number is arranged in left side and 4th smallest number is arranged in right side. This pattern is followed in all the step, until all the numbers are arranged.

Input: 93 57 74 18 41 28 87 78 67 71

Step I: 17 93 57 74 41 87 78 67 71 27 Step II: 42 17 93 74 87 78 67 71 27 58 Step III: 68 42 17 93 74 87 78 27 58 72 Step IV: 73 68 42 17 93 87 27 58 72 77 Step V: 88 73 68 42 17 27 58 72 77 94 Direction (26-30): Read the following information carefully. And answer the following questions given below.

The following is the illustration of the input and the steps of arrangement. Rearrange the number according to the pattern followed in the given illustration.

Input: 36 51 23 30 37 43 70 59 Step I: 23 36 51 37 43 70 59 30 Step II: 23 37 51 43 70 59 30 36 Step III: 23 37 43 70 59 30 36 51 Step IV: 23 37 43 59 30 36 51 70 Step V: 24 35 44 57 31 34 52 68 Step VI: 31 35 44 57 34 52 68 24 Step VII: 31 35 57 44 52 68 24 34 Step VIII: 31 35 57 68 24 34 44 Step IX: 31 35 57 68 24 34 44 52 Step X: 31 35 57 24 34 44 52 68

And Step X is the last step of the rearrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

Input: 31 67 57 41 33 84 79 71

Q26. How many steps are needed to complete this arrangement?

- 1. X
- 2. XII
- 3. VI
- 4. VIII
- 5. IX

Ans26. 5) IX

Q27. Which of the following is sixth from the left end of Step V in the above arrangement?

- 1. 39
- 2. 58
- 3. 69
- 4. 80
- 5. None of these **Ans27. 2)** 58

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Q28. Which of the following represents the difference of the first and the last elements in the second step?

- 1. 26
- 2. 28
- 3. 25
- 4. None of these
- 5. 24
- Ans28. 1) 26

Q29. Which of the following is step VI of the given input?

- 1. 32 39 68 69 80 31 58 82
- **2.** 31 39 68 69 80 58 82 32
- 3. 31 41 67 71 79 33 57 84
- 4. 31 39 69 68 80 82 32 58
- 5. None of these

Ans29. 4) 31 39 69 68 80 82 32 58

Q30.Which elements are there between 6th from the left and 6th from the right in step III?

- 1. 67,79
- 2. 44, 59
- 3. 71, 79
- 4. 67,72

5. None of these

Ans30. 3) 71, 79 Explanation(26-30):

Logic:

Step I – Step III/IV: Prime numbers are arranged in ascending order from the left end and other numbers are arranged from the right end in ascending order.

Step IV/V: +1, -2, +1, -2....

Step V/VI-Step IX/X: Odd numbers are arranged in ascending order from the left end and even numbers are arranged from the right end in ascending order.

Input: 31 67 57 41 33 84 79 71

Step I: 31 41 67 57 84 79 71 33 Step II: 31 41 67 71 84 79 33 57 Step III: 31 41 67 71 79 33 57 84 Step IV: 32 39 68 69 80 31 58 82 Step V: 31 39 68 69 80 58 82 32 Step VI: 31 39 69 68 80 82 32 58 Step VII: 31 39 69 80 82 32 58 68 **Step VIII:** 31 39 69 82 32 58 68 80 **Step IX:** 31 39 69 32 58 68 80 82 Step IX is the last step. Hence, IX Steps are needed to complete this arrangement.

Directions (31-35): Read the following information carefully. And answer the following questions given below.

The following is the illustration of the input and the steps of arrangement. Rearrange the number according to the pattern followed in the given illustration.

Input: 25 21 23 15 27 21 27 29 Step 1: 27 24 22 21 Step 2: 81 48 22 Step 3: -3 8 Step 4: 2.5

Input: 25 14 22 25 21 20 34 17

Q31. What is the sum of all the numbers of Step 2?

- 1. 177
- 2. 176
- 3. 174
- 4. 175

5. None of these **Ans31.** 1) 177

Q32.Which of the following number represents the last step?

- 1. 2
- 2. 1.5
- 3. 2.5
- 4. 3

5. None of these

Ans32. 2) 1.5

Q33. What is the sum of numbers present in step 3?

- 1. 3
- 2. 5

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- 3. 4
- 4. 6

5. None of these

Ans33. 1) 3

Q34. How many even numbers are there in the step 1?

- 1. 1
- 2. 4
- 3. 3
- 4. 5
- 5. 2
- **Ans34.** 1) 1

Q35 .Which of the following is lowest number in step 2?

- 1. 72
- 2. 42
- 3. 55
- 4. 63
- 5. None of these

Ans35. 2) 42

Explanation (31-35):

Here mathematical operation is followed in every step.

Step1: The average of first and last, then second and second last number and so on taken.

Step2: First number is multiplied with difference with its next number:

Step3: Difference between the sum of the digits of the numbers.

Step4: Average of the numbers.

Input: 25 14 22 25 21 20 34 17 Step1: 21 24 21 23 Step2: 63 72 42 Step3: 0 3 Step4: 1.5

Direction (36-40): Read the following information carefully. And answer the following questions given below.

A word and number arrangement magic 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: 49 nidhi complete 27 8 tackle 9 anjali wicket 121 fabulous 81 doggle 125

Step I: wicket 49 nidhi complete 27 8 tackle anjali 121 fabulous 81 doggle 125 9

Step II: tackle wonder 49 nidhi complete 27 anjali 121 fabulous 81 doggle 125 9 8

Step III: nidhi tackle wonder complete 27 anjali 121 fabulous 81 doggle 125 9 8 49

Step IV: fabulous nidhi tackle wonder complete anjali 121 81 doggle 125 9 8 49 27

Step V: doggle fabulous nidhi tackle wonder complete anjali 121 125 9 8 49 27 81

Step VI: complete doggle fabulous nidhi tackle wonder anjali 121 9 8 49 27 81 125

Step VII: anjali complete doggle fabulous nidhi tackle wonder 9 8 49 27 81 125 121

Step VII: is the last step of the above input; as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

Input: crush 729 magic 4 selmon 25 216 hunter 169 popular 144 dispel 512 result

Q36. How many steps will be required to complete the rearrangement?

- 1. Six
- 2. Seven
- 3. Eight
- 4. Five
- 5. None of these

Ans36. (2) Seven

Q37. Which of the following will be Step V?

- hunter magic popular result selmon crush 169 729 dispel 4 216 25 512 144
- magic hunter popular result selmon crush 729 169 dispel 4 216 25 512 144
- hunter magic popular result selmon crush 729 169 dispel 4 216 25 512 144
- 4. hunter magic popular result selmon crush 729 169 dispel 4 216 25 144 512

5. None of these

Ans37. (3) hunter magic popular result selmon crush 729 169 dispel 4 216 25 512 144

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Q38. Which of the following step would be the last but one?

- 1. Step V
- 2. Step VI
- 3. Step IV
- 4. Step VII
- 5. None of these

Ans38. (2) Step VI

Q39. If in Step IV 'popular' is related to '25' and 'selmon' is related to '4' in certain way, following the same way '729' is related to which of the following?

- 1. dispel
- 2. hunter
- 3. 144
- 4. 216
- 5. None of these

Ans39. (3) 144

Q40.What is the position of 'crush' in Step IV?

- 1. Third from left
- 2. Sixth from right
- 3. Eighth from right
- 4. Fourth from left
- 5. None of these

Ans40. (5) None of these Explanation (36-40):

Pattern:

It rearranges one word and one number in each step, words are arranged from left end to the left side and numbers are arranged from right end to the right side.

(i) In this, words are arranged according to the place value of the first letter of the word in decreasing order from left end.

(ii) Numbers are arranged in increasing order alternatively i.e. smallest square number is arranged first then smallest cube number followed by second smallest square number then second smallest cube number and so on.

Input: crush 729 magic 4 selmon 25 216 hunter 169 popular 144 dispel 512 result

Step I: selmon crush 729 magic 25 216 hunter 169 popular 144 dispel 512 result 4

Step II: result selmon crush 729 magic 25 hunter 169 popular 144 dispel 512 4 216

Step III: popular result selmon crush 729 magic hunter 169 144 dispel 512 4 216 25
Step IV: magic popular result selmon crush 729 hunter 169 144 dispel 4 216 25 512
Step V: hunter magic popular result selmon crush 729 169 dispel 4 216 25 512 144
Step VI: dispel hunter magic popular result selmon crush 169 4 216 25 512 144 729
Step VII: crush dispel hunter magic popular result selmon 4 216 25 512 144 729
169
Step VII is the last step of the above input.

Direction (41-45): Read the following information carefully. And answer the following questions given below.

An input line of words and numbers rearranges into a following particular rule. The following is an illustration of input and rearrangement.

Input: 8054 6907 7564 6798 0255 7764

 Step I: 8540 9760 7654 9876 5520 7764

 Step II: 5520 7654 7764 8540 9760 9876

 Step III: 12 22 24 17 22 28

 Step IV: 28 24 22 22 17 12

 Step V: 16 7 0

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: 3640 9556 7532 8925 9456 2854

Q41. What will come when 2nd number from left in step I is divided by 3rd number from left in step V?

- 1.1930
- 2.1932
- 3. 1931
- 4. 1933
- 5. None of these

Ans41. 3. 1931

Q42. What should be the resultant if all the numbers of Step III are added?

- 1. 122
- 2. 123

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3. 121
 4. 124
 5. None of these
 Ans42. 1. 122

Q43. What is the difference between the number which is 3rd from right in Step I and which is 5th from left in Step II?

1. 195 2. 197 3. 193 4. 199 5. None of these **Ans43. 2.** 197

Q44. What is the sum of the all the numbers of last step?

- 1. 24
- 2. 26
- 3. 22
- 4. 28
- 5. None of these
- Ans44. 1. 24

Q45.What is the product of the 1st digit from left in Step III and 1st digit from right in last Step?

- 1. 55
- 2.65
- 3. 75
- 4.66
- 5. None of these
- Ans45. 2. 65

Explanation (41-45):

Pattern - In Step I, digits of each numbers are arranged in descending order from left to right.

In Step II: Numbers are arranged in ascending order from left to right.

In Step III: Add all the digits of the number.

In Step IV: Arrange all the numbers in descending order.

In Step V: Difference between first and last number, second and 2nd last number and so on..

Input: 3640 9556 7532 8925 9456 2854

Step I: 6430 9655 7532 9852 9654 8542 **Step II:** 6430 7532 8542 9654 9655 9852 **Step III:** 13 17 19 24 25 24 **Step IV:** 25 24 24 19 17 13 **Step V:** 12 7 5

Directions (46-47): 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 :53 watson 14 Parul 23 Newton 11 Lock 42 Step I: Lock watson 14 Parul 23 Newton 11 42 53 Step II: Lock Newton watson 14 Parul 11 21 42 53 Step III: Lock Newton Parul watson 11 14 23 42 53 Step IV: Lock Newton Parul Watson 4 25 25 36 64 Step IV is the last step of the above input. As per the rules followed in the above steps find the appropriate step for the given input.

Input: Zara 14 hazard 15 version 16 Funny 22 knife 18 yolk 13

Q46. What is the position of 'version' in Step III?

- Sixth from the left
- 2. Fifth from the right
- 3. Fourth from the left
- 4. Sixth from the right
- 5. None of these

Q47. Which of the following would be at the 7th position from the right in Step V?

- 1. zapak
- 2. yard
- 3. 13
- 4. 15
- 5. None of these
- Ans10.

Explanation (46-47):

Logic:

(I) The words are arranged in alphabetical order from left to right

(II) The numbers are arranged in descending order from right to left.

(III) However after arranging all the numbers, square of the sum of both the digits of the number is written in last step.

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Input: Zara 14 hazard 17 version 25 Funny 29 knife 27 yolk 13.

Step I: Funny Zara 14 hazard 17 version 25 knife 27 yolk 13 29

Step II: Funny hazard Zara 14 17 version 25 knife yolk 13 27 29

Step III: Funny hazard knife Zara 14 17 version yolk 13 25 27 29

Step IV: Funny hazard knife version Zara 14 yolk 13 17 25 27 29

Step V: Funny hazard knife version yolk Zara 13 14 17 25 27 29

Step VI: Funny hazard knife version yolk Zara 16 25 64 49 81 121.

Directions (48-52): Read the following information carefully. And answer the following 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 input and its rearrangement.

INPUT: party 81 ice 32 reason 19 unique 45 survey 62 42 accord.

STEP I: 32 party ice reason 19 unique 45 survey 62 42 accord 81.

STEP II: party 32 ice reason 19 45 survey 62 42 accord 81 unique.

STEP III: 42 party 32 ice reason 19 survey 62 accord 81 unique 45.

STEP IV: reason 42 party 32 19 survey 62 accord 81 unique 45 ice.

STEP V: 62 reason 42 party 32 survey accord 81 unique 45 ice 19.

STEP VI: survey 62 reason 42 party 32 81 unique 45 ice 19 accord.

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 steps for the given input.

INPUT: drum 72 oxygen 53 change 99 arguement 92 eager 78 hasty 31

Q48. What is the difference between the element which is fourth from left in Step IV and seventh from right in Step III?

- 1. 12
- 2. 21
- 3. 11
- 4. 18
- 5. 20
- Ans48. 5. 20

Q49. Which of the following element will be 6th from the left of 3rd from the right end in step V?

- 1. 53
- 2. change
- 3. arguement
- 4. 78
- 5. 31

Ans49. 2. change

Q50. In Step II, which of the following word/number would be on 4th position (from the left)?

- 1. eager
- 2. 31
- ICAAI
- 3. 78
 4. 53

5. Change

Ans50. 4.53

Q51. In which of the following step the elements 'change 72 99 oxygen' found in the same order?

- 1. Step VI
- 2. Step IV
- 3. Step V
- 4. Step III
- 5. Step II

Ans51. 1. Step VI

Q52. How many steps are required for the final arrangement?

- 1. 5
- 2. 8
- 3. 4
- 4. 7
- 5. 6

Ans52. 5. 6 Explanation (48-52):

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Logic of the given input output is-

(i) The words and numbers are arranged in alternatively in every step starting from the numbers. Two words/number are arranged in each step.

(ii) Even numbers are arranged at the leftmost end in increasing order, while the odd numbers are arranged at the rightmost end in decreasing order in each alternate step.

(iii) The words starting with a consonant are arranged at the left most end in increasing alphabetical order and the words starting with a vowel are arranged at the rightmost end in decreasing alphabetical order in each step.

INPUT: drum 72 oxygen 53 change 99 arguement 92 eager 78 hasty 31.

STEP I: 72 drum oxygen 53 change arguement 92 eager 78 hasty 31 99.

STEP II: change 72 drum 53 arguement 92 eager 78 hasty 31 99 oxygen.

STEP III: 78 change 72 drum arguement 92 eager hasty 31 99 oxygen 53.

STEP IV: drum 78 change 72 arguement 92 hasty 31 99 oxygen 53 eager.

STEP V: 92 drum 78 change72 arguement hasty 99 oxygen 53 eager 31.

STEP VI: hasty 92 drum 78 change 72 99 oxygen 53 eager 31 arguement.

Directions (53-57): Study the following information carefully and 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 Input and rearrangement.

Input : 2 18 ear 13 etch rosy lappy 53 37 heir 40

Step 1: 2 18 gat 13 gtcj tosa nappa 53 37 jeit 40
Step 2: 2 gat 18 13 gtcj tosa nappa 53 37 jeit 40
Step 3: 2 gat 13 gtcj 18 tosa nappa 53 37 jeit 40
Step 4: 2 gat 13 gtcj 37 jeit 18 tosa nappa 53 40
Step 5: 2 gat 13 gtcj 37 jeit 53 nappa 18 tosa 40
And step 5 is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.

Input: 83 privy 73 evade 31 sludge cattle 61 46 caveat 26

Q53. Which step number would be the following output?

"31 eattlg 61 eaveav 83 rriva 73 gvadg uludgg 46 26"

- 1. Step IV
- 2. Step III
- 3. Step V
- 4. Step VI
- 5. None of the Above

Ans53. (2) Step III

Q54. What is the position of 'rriva' in the step 5?

- 1. Seventh from the right
- 2. Sixth from the left
- 3. Fourth from the right
- 4. Sixth from the right
- 5. None of these

Ans54. (3) Fourth from the right

Q55. In second last step, what is the sum of second from right element and third from left element?

- 1. 99
- 2. 72
- 3. 107
- 4. 92
- 5. 149

Ans55. (3) 107

Q56. Which step is last step of this given inputoutput arrangement?

- 1. IV
- 2. V
- 3. VI
- 4. VII
- 5. None of these

Ans56. (B) V

Q57. Which of the following would be at the ninth position from the left end in penultimate step?

- 1. 26
- 2. uludgg

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- 3. 83
- 4. rriva
- **5.** 46

Ans57. (B) uludgg

Explanation (53-57):

(i) Every first and last alphabet of every word is replaced by its upcoming second alphabet in alphabetical series.



(ii) one prime number and one word arranges in ascending order from left to right in each step but not in 1st step.

Example: 2 gat

(iii) After arranging all prime number with word, All even numbers are arranged with word in ascending order.

INPUT: 83 privy 73 evade 31 sludge cattle 61 46 caveat 26

Step I: 83 rriva 73 gvadg 31 uludgg eattlg 61 46 eaveav 26

Step II: 31 eattlg 83 rriva 73 gvadg uludgg 61 46 eaveav 26

Step III: 31 eattlg 61 eaveav 83 rriva 73 gvadg uludgg 46 26

Step IV: 31 eattlg 61 eaveav 73 gvadg 83 rriva uludgg 46 26

Step V: 31 eattlg 61 eaveav 73 gvadg 83 rriva 26 uludgg 46

Directions (58-62):- 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 hide in each step. The following is an illustration of input and rearrangement. (All the numbers are two digit numbers).

Input: point 46 22 hide angel 76 65 42 wood dig upper 32 56 ego.

Step I: 22 point 46 hide 76 65 42 wood dig upper 32 56 ego angel

Step II: 32 22 point 46 hide 76 65 42 wood dig upper 56 angel ego

Step III: 42 32 22 point 46 hide 76 65 wood dig 56 angel ego upper

Step IV: 46 42 32 22 point hide 76 65 wood 56 angel ego upper dig

Step V: 56 46 42 32 22 point 76 65 wood angel ego upper dig hide

Step VI: 65 56 46 42 32 22 76 wood angel ego upper dig hide point

Step VII: 76 65 56 46 42 32 22 angel ego upper dig hide point wood

And Step VII is the last step of the above input, as the desired arrangement is obtained.

As per the pattern followed in the above steps, find out in each of the following questions the appropriate step for the given input.

Input: van 86 hulk 19 37 unit orange edit 46 27 import marble 71 95(All the numbers are two digits numbers).

Q58. Which of the following represents the position of 'van' in the fifth step of the given input?

- 1. Ninth from the left
- 2. Fifth from the left

1.0

- 3. Sixth from the left
- 4. Seventh from the left
- 5. Seventh from the right

Ans58. (3) Sixth from the left

Q59. Which word/number would be at 7th position from the right in Step VI of the given input?

- 1. 86
- 2. marble
- 3. import
- 4. 95
- 5. Edit

Ans59. (4) 95

Q60. Which step number is the following output of the given input?

Output: 46 37 27 19 van hulk 86 marble 95 71 edit import orange unit

- 1. Step VI
- 2. Step III
- 3. Step IV

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4. Step V

5. There is no such step

Ans60.(5) There is no such step

Q61. How many elements (words or numbers) are there between 'orange' and '37' as they appear in the last step of the output of the following input?

- 1. One
- 2. Two
- 3. Three
- 4. Four
- 5. Five

Ans61. (4) Four

Q62. What is the difference between 4th number from left end and 8th number from left end in penultimate step of the given input?

- 1. 68
- 2. 58
- 3. 49
- 4. 27
- 5. None of these

Ans62. (2) 58

Explanation (58-62):

In the given Illustration:

Numbers are arranged in descending Order.

In case of words first vowels are arranged in ascending order followed by consonants in ascending order as per their position in dictionary. A word and number is arranged simultaneously in each step

Now, given input is :

Van 86 hulk 19 37 unit orange 46 27 import marble 71 95 edit

Step I: 19 van 86 hulk 37 unit orange 46 27 import marble

Stepll: 27 19 van 86 hulk 37 unit orange 46 71 95 edit import marble

Step III : 37 27 19 van 86 hulk unit 46 marble 71 95 edit import orange

Step IV : 46 37 27 19Van 86 hulk marble 71 95 edit import orange unit

Step V: 71 46 37 27 19 Van 86 marble 95 edit import orange unit hulk

Step VI: 86 71 46 37 27 19 van 95 edit import orange unit hulk marble

Step VII: 95 86 71 46 37 27 19 edit Import orange unit hulk marble van.

Directions (63-65):- Study the following information carefully and answer the given questions:

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

Input: 46 244 181 27 98 543 377 292

Step 1: 543 46 244 181 27 98 377 292 Step 2: 543 27 46 244 181 98 377 292 Step 3: 543 27 377 46 244 181 98 292 Step 4: 543 27 377 46 292 244 181 98 Step 5: 543 27 377 46 292 98 244 181

And Step 5 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: 184 288 542 43 66 764 119 351

Q63. How many numbers are there between '43' and '119' as they appear in the 5thstep of the input?

- . 1. Six
- 2. Four
- 3. Seven
- 4. None of these
- 5. Five
- Ans63. (5) Five

Q64. Which step number is the following output? 764 43 542 66 351 119 288 184

- 1. Step 5
- 2. Step 4
- 3. Step 6
- 4. Step 7
- 5. There is no such step

Q65. What is the position of "184" in the 4^{th} Step?

- 1. Fourth from left end.
- 2. Fourth from right end.
- 3. Third from left end.

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Ans64. (4) Step 7



4. Third from right end.

5. None of these

Ans65. 2. Fourth from right end.

Explanation (63-65):

In the given illustration:

1) Only numbers are given in this input.

2) Numbers are arranged in alternate order.

In the first step, the highest number is arranged at leftmost position i.e. at first position.

In step 2, the lowest number is placed immediate right to the first highest number from the left end. In step 3, next highest number is arranged next to the lowest one from the left end and else all are shifted accordingly.

The same process is followed till all the numbers are rearranged as all numbers at the left side in alternating order.

Input: 184 288 542 43 66 764 119 351

 Step 1: 764
 184
 288
 542
 43
 66
 119
 351

 Step 2: 764
 184
 288
 542
 66
 119
 351

 Step 3: 764
 764
 43
 542
 184
 288
 66
 119
 351

 Step 3: 764
 764
 43
 542
 66
 184
 288
 119
 351

 Step 4: 764
 764
 43
 542
 66
 351
 184
 288
 119

 Step 5: 764
 764
 43
 542
 66
 351
 184
 288

 Step 6: 764
 764
 43
 542
 66
 351
 119
 184
 288

 Step 7: 764
 764
 542
 66
 351
 119
 288
 184

Now step 7 is the last step (output) for the arrangement.

Direction (66-70): 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. The following is an illustration of input and rearrangement.

Input: 83 known 95 more dash 79 cash 63 has 71 88 work

Step I: 63 83 known more dash 79 cash has 71 88 work 95

Step II: 63 71 83 known more dash 79 cash has work 88 95

Step III: 63 71 79 known more dash cash has work 83 88 95

Step IV: 63 71 79 cash known more dash has work 83 88 95

Step V: 63 71 79 cash dash known more has work

83 88 95

Step VI: 63 71 79 cash dash has known more work 83 88 95

Step VI is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of following questions the appropriate steps for the given input.

Input : 64 jack queen 42 ear 84 lost 52 dear 76 gone 48

Q66. How many steps would be needed to complete the arrangement?

- 1. X
- 2. VIII
- 3. IX
- 4. VII
- 5. None of these
- Ans66. (4) VII

Q67. Which Step number would be the following output?

42 48 52 dear ear jack queen lost gone 64 76 84

- 1. II 2. VI
- 3. V

4. IV

5. None of these Ans67. (3) V

Q68. Which of the following would be the Step I?

- 1. 42 48 52 jack queen ear lost dear gone 64 76 84
- 84 64 jack queen ear lost 52 dear 76 gone 48 42
- 42 64dear ear jack queen lost 52 76 gone 48 84
- 4. 42 64 jack queen ear lost 52 dear 76 gone 48 84
- 5. None of these

Ans68. (4) 42 64 jack queen ear lost 52 dear 76 gone 48 84

Q69. Which of the following would be the final arrangement?

1. 64 76 84 dear ear gone jack lost queen 42 48 52

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- 2. 42 48 52 dear ear gone jack lost queen 64 76 84
- 3. 42 48 52 64 76 84 dear ear gone jack lost queen
- 4. 42 48 52 dear lost ear gone jack queen 64 76 84
- 5. None of the above

Ans69. (2) 42 48 52 dear ear gone jack lost queen 64 76 84

Q70. In Step IV, which of the following word/number would be on 7th position (from the right end)?

- 1. queen
- 2. ear
- 3. 64
- 4. gone
- 5. None of the above

Ans70. (1) queen

Explanation (66-70):

Step 1: 42 64 Jack queen last 52 dear 76 gone 48 84

Step 2: 4248 64 Jack queen ear last 52 dear gone 76 84

Step 3: 42 48 52 Jack queen ear lost dear gone 64 76 84

Step 4: 42 48 52 dear Jack queen ear lost gone 64 76 84

Step 5: 42 48 52 dear ear gone jack queen lost gone 64 76 84

Step 6: 42 48 52 dear ear gone jack queen lost 64 76 84

Step 7: 42 48 52 dear ears gone jack lost queen 64 76 84

Directions (71-75) : 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.

Input : 52 peak 91 Tabular golden 46 Brave 15 integer 31 73 ureka

Step I : 15 52 peak Tabular golden 46 Brave integer 31 73 ureka 91

Step II: 15 31 52 peak Tabular golden 46 Brave integer ureka 73 91

Step III: 15 31 46 peak Tabular golden Brave integer ureka 52 73 91

 Step IV : 15
 31
 46
 Brave peak Tabular golden

 integer
 ureka
 52
 73
 91

 Step V : 15
 31
 46
 Brave golden
 peak
 Tabular

 integer ureka
 52
 73
 91

Step VI : 15 31 46 Brave golden integer peak Tabular ureka 52 73 91

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 steps for the given input. Input for the questions.

Input : 67 member Zaika 19 hearing 83 Nanji 49 elight 77 jackle 37

Q71. How many steps would be needed to complete the arrangement?

- 1. X
- 2. VIII
- 3. IX
- 4. VII
- 5. None of these
- Ans71. (4) VII

Q72. Which Step number would be the following output?

19 37 49 elight hearing member Zaika Nanji jackle 67 77 83

- 1. II
- 2. VI
- 3. V
- 4. IV
- 5. None of these

Ans72. (3) V

Q73. Which of the following would be the Step I?

- 1. 29 37 49 member Zaika hearing Nanji elight jackle 67 77 83
- 2. 83 67 member Zaika hearing Nanji 49 elight 77 jackle 37 19
- 3. 19 67 elight hearing member Zaika Nanji 49 77 jackle 37 83
- 4. 19 67 member Zaika hearing Nanji 49 elight 77 jackle 37 83

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5. None of these

Ans73. (4) 19 67 member Zaika hearing Nanji 49 elight 77 jackle 37 83

Q74. Which of the following would be the final arrangement?

- 1. 67 77 83 elight hearing jackle member Nanji Zaika 19 37 49
- 2. 19 37 49 elight hearing jackle member Nanji Zaika 67 77 83
- 3. 19 37 49 elight Nanji hearing jackle member Zaika 67 77 83
- 4. 19 37 49 elight hearing jackle member Zaika 67 77 Nanji 83
- 5. None of these

Ans74. (2) 19 37 49 elight hearing jackle member Nanji Zaika 67 77 83

Q75. In Step IV, which of the following word/number would be on 7th position (from the right)?

- 1. Zaika
- 2. hearing
- 3. 67
- 4. jackle
- 5. None of these

Ans75. (1) Zaika

Explanation (71-75):

Step 1: 1967 member zaika we hearing Nanji 49 elight 77 Jackle 83

Step2: 193767 member zaika hearning nanji 49 elight Jackle 7783

Step 3: 1937 49 member zaika hearning Nanji jackle 67 77 83

Step 4: 1937 49 member zaika hearing nanji jackle 67 77 83

Step 5: 1937 49 elight hearning member zaika nanji jackle 67 77 83

Step 6: 1937 49 elight hearning jackle member zaika nanji 67 77 83

Step 7: 19 37 49 elight hearning jackle member nanji zaika 67 77 83

Directions (76-80):- 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 hide in each step. The following is an illustration of input and rearrangement.

Input: peehu 2 namrata 7 8 khushi go to 15 street chair

Step I: khushi peehu 2 namrata 7 chair 8 go to 15 street

Step II: chair khushi peehu 2 namrata street 7 8 go to 15

Step III: street chair khushi peehu 2 15 namrata 7 8 go to

Step IV: 15 street chair khushi peehu to 2 15 namrata 7 8 go

Step V: to 15 street chair khushi go peehu 2 15 namrata 7 8

Step VI: go to 15 street chair 8 khushi peehu 2 namrata 7

Step VII: 8 go to 15 street 7 chair khushi peehu 2 namrata

Step VIII: 7 8 go to 15 namrata street chair khushi peehu 2

Step IX: namrata 7 8 go to 2 15 street chair khushi peehu

Step X: 2 namrata 7 8 go peehu to 15 street chair khushi

Step XI: peehu 2 namrata 7 8 khushi go to 15 street chair

And step XI is the last step of the above steps, as the desired arrangement is obtained.

As per the hides followed in the above steps, find out in each of the following questions the appropriate step for the given input.

Input: 13 shweta nikita neha 14 15 are school students

Q76. Which of the following would be step IV of the given arrangement?

- School students 14 13 are Shweta nikita neha 15
- 2. Are school students 14 15 13 shweta nikita neha
- 3. Neha 15 are school nikita students 14 13 shweta
- 4. 13 shweta nikita neha 14 15 are school student

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5. None of these

Ans76. (2) Are school students 14 15 13 shweta nikita neha

Q77. Which step is the following output:

13 shweta nikita neha 14 15 are school students?

- 1. Step I
- 2. Step VI
- 3. Step IX
- 4. Step V
- 5. Step VII

Ans77. (3) Step IX

Q78. How many steps will be required to complete the rearrangement?

- 1. 10
- 2. 9
- 3. 11
- 4. 12
- 5. 13
- Ans78. (1) 10

Q79. What will be the sum of all numbers in the first half of the last step?

- 1. 29
- 2. 28
- 3. 27
- 4. 25
- 5. None of these

Ans79. (3) 27

Q80. Which of the following would be step VI of the given arrangement?

- 1. Neha 15 are school nikita students 13 14 shweta
- Shweta nikita neha 15 13 are school students 14
- 3. Neha 15 are school nikita students 14 13 shweta
- 4. None of these
- 5. Can't be determined

Ans80. (3) Neha 15 are school nikita students 14 13 shweta

Explanation (76-80):

Logic :

middle word/number is arranged at 1st position from left and the last word/number is placed at middle position of sentence. Rest are shifted accordingly.

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