

Quiz Date: 18th March 2020

Directions (1-5): Study the following information carefully to answer the given questions:

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

INPUT— 6531 8234 2813 9812 7823 2312

STEP I- 1356 2348 1238 1289 2378 1223

STEP II- 1223 1238 1289 1356 2348 2378

STEP III- 22 23 28 35 34 37

STEP IV- 4 5 10 8 7 10

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: 2538 5628 8516 7524 6325 2645

Q1. What will the addition of the numbers which is second, fourth and sixth from the left end in step IV?

- (a) 32
- (b) 28
- (c) 38
- (d) 40
- (e) None of these

Q2. Which of the following would be the difference of the numbers which is 2nd from left end in step I and fourth from right end in Step II?

- (a) 113
- (b) 128
- (c) 113
- (d) 212
- (e) None of these

Q3. Which of the following element will be 3rd to the left of 6th from the left end in step III?

- (a) 34
- (b) 37
- (c) 25
- (d) 35
- (e) None of these

Q4. What will the addition of the numbers which is second, fourth and sixth from the right end in step III?

- (a) 132
- (b) 128
- (c) 136
- (d) 140
- (e) None of these

Q5. Which of the following is the product of all the digits of the number which is 3rd number from the left end in step I?

- (a) 240
- (b) 315
- (c) 235
- (d) 189
- (e) None of these



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 input and rearrangement.

Input- 2 12 joint 59 news 73 35 army prize 49 direction clear

Step I: army 12 joint 59 news 73 35 prize 49 direction clear 2

Step II: army joint 12 news 73 35 prize 49 direction clear 2 59

Step III: army joint news 12 35 prize 49 direction clear 2 59 73

Step IV: army joint news clear 35 prize 49 direction 2 59 73 12

Step V: army joint news clear direction prize 49 2 59 73 12 35

Step IV: army joint news clear direction prize 2 59 73 12 35 49

And step IV is the last step of the above input, as per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

Input: 3 20 project 17 drop 61 38 grow field 75 make human

Q6. What will be the position of 'field' with respect to 'make' in the step III of the input?

- (a) Immediate left
- (b) Fourth to the right
- (c) None of these
- (d) Second to the left
- (e) Fourth to the left

Q7. What will be the position of 'human' in the last but one step?

- (a) Seventh from the left
- (b) Seventh from the right

- (c) Fourth from the left
- (d) Fifth from the left
- (e) Both (b) and (c)

Q8. Which of the following will be the penultimate step?

- (a) Step VI
- (b) Step V
- (c) Step IV
- (d) Step III
- (e) None of these

Q9. After how many steps no further rearrangement of words is possible?

- (a) Five
- (b) Four
- (c) Six
- (d) Seven
- (e) Eight

Q10. What will be the position of '75' in step IV?

- (a) Sixth from right
- (b) Seventh from right
- (c) Seventh from left
- (d) Both a and c
- (e) None of these

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Directions (11-15): Study the following information carefully and answer the given questions.

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

Input: 75 16 56 25 48 31 64 97 22 57

Step I: 52 75 56 48 31 64 97 22 57 17

Step II: 13 52 75 56 48 64 97 57 17 23

Step III: 75 13 52 75 56 64 97 17 23 49

Step IV: 57 75 13 52 64 97 17 23 49 57

Step V: 79 57 75 13 52 17 23 49 57 65

And step V is the last step of the arrangement.

As per the above rule followed in the above steps, find out in each of the following questions the appropriate step for the input given below;

Input: 86 14 53 24 45 17 32 27 74 93

Q11. Which of the following is the last step of above input?

- (a) III
- (b) VI
- (c) IV

- (d) V
- (e) None of these

Q12. Which is the following step?

Step: 54 72 71 86 53 74 93 15 25 33

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

Q13. What is 4th element from right end in Step IV?

- (a) 15
- (b) 71
- (c) 86
- (d) 93
- (e) 54

Q14. Which of the following elements lies exactly between 71 and 32 in step II?

- (a) 15
- (b) 86
- (c) 53
- (d) 25
- (e) 74

Q15. Which of the following is the fifth step for input?

- (a) 39 15 25 33 75 87 35 54 72 71
- (b) 39 35 25 33 75 87 54 72 71 15
- (c) 39 72 71 15 25 33 35 54 75 87
- (d) 71 15 25 33 75 87 39 35 54 72
- (e) 39 35 54 72 71 15 25 33 75 87



SOLUTIONS**Solutions (1-5):**

In the given Input-Output question the logic is—

For step I- All the digits of the given numbers are arranged in ascending order within the numbers.

For Step II- All the numbers obtained in step I are arranged in ascending order from the left end.

For Step III- First and last digits of the numbers are omitted.

For step IV- The digits of the numbers obtained in step III are added.

INPUT—2538 5628 8516 7524 6325 2645

STEP I- 2358 2568 1568 2457 2356 2456

STEP II- 1568 2356 2358 2456 2457 2568

STEP III- 56 35 35 45 45 56

STEP IV- 11 8 8 9 9 11

S1. Ans. (b)

S2. Ans. (e)

S3. Ans. (d)

S4. Ans (c)

S5. Ans (a)

Solutions (6-10):

Sol. The machine rearranges one word and one number in each step simultaneously, words are arranged from left end and numbers are arranged from right end.

(i) In this, words are arranged in decreasing manner according to the last letter of the word.

(ii) Numbers are arranged in increasing order, first all prime numbers are arranged after that non-prime numbers are arranged.

Input- 3 20 project 17 drop 61 38 grow field 75 make human

Step I: grow 20 project 17 drop 61 38 field 75 make human 3

Step II: grow project 20 drop 61 38 field 75 make human 3 17

Step III: grow project drop 20 38 field 75 make human 3 17 61

Step IV: grow project drop human 38 field 75 make 3 17 61 20

Step V: grow project drop human make field 75 3 17 61 20 38

Step VI: grow project drop human make field 3 17 61 20 38 75

S6. Ans.(d)

S7. Ans.(c)

S8. Ans.(b)

S9. Ans.(a)

S10. Ans.(d)

Solutions (11-15):

Sol.

In this input output question two numbers are arranged in each step following a certain pattern. Let us understand the logic behind it-

* Even numbers are arranged at the right end, from left to right in ascending order after adding one in each number.

* Odd numbers are arranged at the left end, from right to left in ascending order after the digits are interchanged within the number.

Input: 86 14 53 24 45 17 32 27 74 93

Step I: 71 86 53 24 45 32 27 74 93 15

Step II: 72 71 86 53 45 32 74 93 15 25

Step III: 54 72 71 86 53 74 93 15 25 33

Step IV: 35 54 72 71 86 93 15 25 33 75

Step V: 39 35 54 72 71 15 25 33 75 87

S11. Ans.(d)

S12. Ans.(b)

S13. Ans.(a)

S14. Ans.(c)

S15. Ans.(e)



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