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Sequential Output Tracing Questions for SBI Clerk Pre, IBPS Clerk Pre, IBPS RRB Asst. Pre and LIC Asst. Pre Exams.

Set 46

Directions: Study the following information carefully and answer the questions given beside.

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: toy for 35 27 61 97 weight stroke

Step I: 61 toy for 35 27 97 weight stroke

Step II: 61 35 toy for 27 97 weight stroke

Step III: 61 35 27 toy for 97 weight stroke

Step IV: 61 35 27 97 toy for weight stroke

Step V: 61 35 27 97 for toy weight stroke

Step VI: 61 35 27 97 for stroke toy weight

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.

Input: 73 jam trim 29 31 clear team 81

Questions :

1. What will the position of '73' in step III of the given input?

- A. 3rd from the left B. 3rd from the right C. 5th to the left D. 2nd to the right from 'jam'
E. None of these

2. How many steps are required to complete the arrangement? (Input should not be counted)

- A. 3 B. 4 C. 5 D. 6 E. None of these

3. Which will be the 4th term from the left end in step IV?

- A. 81 B. Clear C. 31 D. Jam E. None of these

4. Had the term '31' been replaced by '39' in the given input, what will be the position of the term '39' in step I?

- A. 2nd from the left end B. 3rd from the right end C. 4th to the left of 29
D. Can't be determined E. None of these

5. Which of the following statements is true?

- A. 'jam' is 4th from the left end in step I. B. '81' is 7th from the right end in step II.
C. '29' is 5th from the left end in step V. D. 'trim' is 3rd from the right end in step IV.
E. All are false

Correct Answers:

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| A | C | E | B | B |

Common Explanations:

Reference:

Input: toy for 35 27 61 97 weight stroke

Step I: 61 toy for 35 27 97 weight stroke

Step II: 61 35 toy for 27 97 weight stroke

Step III: 61 35 27 toy for 97 weight stroke

Step IV: 61 35 27 97 toy for weight stroke

Step V: 61 35 27 97 for toy weight stroke

Step VI: 61 35 27 97 for stroke toy weight

If we observe the given steps, the following rules are being applied:

Step I. In each step, the number the sum of the digits of which is the lowest, is being arranged at extreme left.

Step II. Next bigger number is arranged to the immediate right of the number achieved in previous step and we carry on in the same manner till we achieve all the numbers in ascending order. This continues till Step IV.

Step V. The word that comes prior to the other given words is placed right after the last number and we keep on arranging all the words in such a manner till we get in ascending order.

Following the rules describe above, we get the steps for the given input as:

Input: 73 jam trim 29 31 clear team 81

Step I: 31 73 jam trim 29 clear team 81

Step II: 31 81 73 jam trim 29 clear team

Step III: 31 81 73 29 jam trim clear team

Step IV: 31 81 73 29 clear jam trim team

Step IV: 31 81 73 29 clear jam team trim

And Step V is the last step of the rearrangement.

Answers :

1. Following common explanation, we get that the term '73' is 3rd from the left end in the step III.
Option A is hence the correct answer.
2. Following common explanation, we get '5' as the correct answer.
Option C is hence the correct answer.
3. Following common explanation we get that it is '29' which is the 4th term from the left end in step IV.
Option E is hence the correct answer.
4. Following the given condition, we get step I as:
Step I: 81 73 jam trim 29 39 clear team
Clearly, '39' is third from the right end.
Option B is hence the correct answer.
5. Following the common explanation, we can observe that '81' is 7th from the right end in step II.
Option B is hence the correct answer.



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