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Sequential Output Tracing Questions for IBPS PO Pre Exams

Sequential Output Tracing Quiz 59

Directions: A 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: 69 76 88 92 13 52 37 41 29 78

Step 1: 14 69 76 88 92 52 37 41 78 30

Step 2: 38 14 69 76 88 92 52 78 30 42

Step 3: 53 38 14 76 88 92 78 30 42 70

Step 4: 77 53 38 14 88 92 30 42 70 79

Step 5: 89 77 53 38 14 30 42 70 79 93

Find the different steps of output using the above mentioned logic for the following input.

Input: 70 56 45 63 71 22 88 33 97 30

1. Which of the following number is 5th to left of 31 in step 4?

- A. 60 B. 57 C. 16 D. 72 E. None of these

2. How many numbers are there between the one which is 3rd from the right end and 23 in step 3?

- A. Four B. One C. More than 4 D. Two E. None of these

3. How many numbers are there between 72 and the one which 2nd to left of 34 in step 5?

- A. Three B. Two C. None D. More than 3 E. None of these

4. What is the position of 88 from the right end in last but one step?

- A. Fourth B. Fifth C. Sixth D. Third E. None of these

5. Which of the following number is 7th from the left end in step 5?

- A. 29 B. 65 C. 76 D. 46 E. None of these



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Correct Answers:

1	2	3	4	5
B	A	D	C	D

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Common Explanations (1-5)

Change happening from Input to Step 1:

Reference:

Input: 69 76 88 92 13 52 37 41 29 78

Step 1: 14 69 76 88 92 52 37 41 78 30

Inference:

In every step, two numbers are changing their positions. In input, the lowest number which is 13, is first added by 1 and getting placed at extreme left end. Similarly, the second lowest number among all, which is 29 is also getting increased by 1 and is getting placed at the extreme right end of the input to give us Step 1.

Given Input: 70 56 45 63 71 22 88 33 97 30

Step 1: 23 70 56 45 63 71 88 33 97 31

Reference

Step 1: 14 69 76 88 92 52 37 41 78 30

Step 2: 38 14 69 76 88 92 52 78 30 42

Inference:

In this step too, the 3rd lowest number among all is first getting increased by 1 and is placed at the extreme left end of Step 1 and so is the case with the 4th lowest number.

Step 1: 23 70 56 45 63 71 88 33 97 31

Step 2: 34 23 70 56 63 71 88 97 31 46

And the same process continues till we get all the numbers arranged in similar fashion.

The complete Machine process is as follows:

Input: 70 56 45 63 71 22 88 33 97 30

Step 1: 23 70 56 45 63 71 88 33 97 31

Step 2: 34 23 70 56 63 71 88 97 31 46

Step 3: 57 34 23 70 71 88 97 31 46 64

Step 4: 71 57 34 23 88 97 31 46 64 72

Step 5: 89 71 57 34 23 31 46 64 72 98

1. From the following explanation we get to know that 57 is fifth to the left of 31 in step 4.

Step 4: 71 57 34 23 88 97 31 46 64 72

Hence option B is the correct answer.

2. From the following explanation we get to know that four numbers are between the one which is 3rd from the right end and 23 in step 3.

Step 3: 57 34 23 70 71 88 97 31 46 64

Hence, option A is correct.

3. Clearly, there are more than three numbers between '71' which is 2nd to the left of 34 and 72 in step 5.

Step 5: 89 71 57 34 23 31 46 64 72 98

Hence, option D is correct.

4. 2nd last step: Step 4: 71 57 34 23 88 97 31 46 64 72

Evidently, 88 is on the 6th position from the right end in 2nd last step.

Hence, option C is correct.

5. Step 5: 89 71 57 34 23 31 46 64 72 98

Clearly, '46' is the number which is 7th from the left end in Step 5 of the machine output process.

Hence, option D is correct.



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