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# Sequential Output Tracing Quiz Questions for SBI PO Pre, IBPS PO Pre IBPS Clerk Mains & SBI Clerk Mains Exams.

## Set No 20

**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: 62 97 38 74 55 12 86 45 68 22

Step 1: 13 62 97 38 74 55 86 45 68 23

Step 2: 39 13 62 97 74 55 86 68 23 46

Step 3: 56 39 13 97 74 86 68 23 46 63

Step 4: 69 56 39 13 97 86 23 46 63 75

Step 5: 87 69 56 39 13 23 45 63 75 98

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

Input: 88 59 28 94 37 75 15 64 71 48

### Questions :

1. Which of the following number is 5th to left of 49 in step 4?

- A. 60      B. 38      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 38 in step 3?

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

3. How many numbers are there between 72 and the one which 4th to left of 76 in step 5?

- A. Three      B. Two      C. None      D. More than three      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. 49      E. None of these

### Correct Answers:

1	2	3	4	5
B	C	B	C	D

## Common Explanations:

Change happening from Input to Step 1:

### Reference:

Input: 62 97 38 74 55 12 86 45 68 22

Step 1: 13 62 97 38 74 55 86 45 68 23

### Inference:

In every step, two numbers are changing their positions. In input, the lowest number which is 12, is first added by 1 and getting placed at extreme left end. Similarly, the second lowest number among all, which is 22 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: 88 59 28 94 37 75 15 64 71 48

Step1: 16 88 59 94 37 75 64 71 48 29

### Reference

Step 1: 13 62 97 38 74 55 86 45 68 23

Step 2: 39 13 62 97 74 55 86 68 23 46

### 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.

Step1: 16 88 59 94 37 75 64 71 48 29

Step2: 38 16 88 59 94 75 64 71 29 49

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

**The complete Machine process is as follows:**

Input: 88 59 28 94 37 75 15 64 71 48

Step1: 16 88 59 94 37 75 64 71 48 29

Step2: 38 16 88 59 94 75 64 71 29 49

Step3: 60 38 16 88 94 75 71 29 49 65

Step4: 72 60 38 16 88 94 29 49 65 76

Step5: 89 72 60 38 16 29 49 65 76 95

**Answers :**

1. From the following explanation we get to know that 38 is fifth to the left of 49 in step 4.

Step 4: 72 60 38 16 88 94 29 49 65 76

Hence option B is the correct answer.

2. From the following explanation we get to know that more than four numbers are between the one which is 3<sup>rd</sup> from the right end and 38 in step 3.

Step 3: 60 38 16 88 94 75 71 29 49 65

Hence, option C is correct.

3. Clearly, there are two numbers between '16' which is 4th to the left of 76 and 72 in step 5.

Step 5: 89 72 60 38 16 29 49 65 76 95

Hence, option B is correct.

4. 2nd last step: Step4: 72 60 38 16 88 94 29 49 65 76

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

Hence, option C is correct.

5. Step 5: 89 72 60 38 16 29 49 65 76 95

Clearly, '49' 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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