

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

Set 41
Directions: A number arrangement machine when given an input line of numbers rearranges them following a particular logic at each step. Below given is an illustration of the same.

Input: 3664277291288665
Step 1: 28374519635821
Step 2: 6582648212179
Step 3: 143918
Step 4: 3288
Step 5: 6
Step 5 is the last step.
On the basis of above illustration find the output and various steps for the input given below.
Input: 2346876472359812

## Questions :

1. What is the sum of the second highest and second lowest numbers of step 2?
A. 124
B. 156
C. 145
D. 147
E. None of these
2. How many numbers in step 1 are fully divisible by 2?
A. 1
B. 2
C. 3
D. None
E. None of these
3. What is the difference of the first and last numbers of step 3 ?
A. 53
B. 83
C. 59
D. 71
E. None of these
4. Which of the following is the third number from left end in step 2?
A. 31
B. 64
C. 45
D. 100
E. 69
5. Find the odd one out?
A. 8
B. 64
C. 24
D. 48
E. 120

## Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| C | B | D | A | D |


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## Reference:

Input: 3664277291288665

Step 1: 28374519635821

## Inference:

Difference of two adjacent numbers of input is taken to for the numbers of step 1.
Input: 2346876472359812

Step 1: 2341238376386

## Reference:

Step 1: 28374519635821

Step 2: 6582648212179

## Inference:

Sum of two adjacent numbers of Step 1 is taken to for the numbers of step 2.

Step 1: 2341238376386
Step 2: 64643145100149

## Reference:

Step 2: 6582648212179

Step 3: 143918

## Inference:

Difference of first and sixth numbers from left end is taken to form the first number of step 3.
Then difference of second and fifth numbers from left end is taken to form the second number of step 3.
Then difference of third and fourth numbers from left end is taken to form the third number of step 3.
Step 2: 64643145100149

Step 3: 853614
Reference:

Step 3: 143918

Step 4: 3288

## Inference:

Product of the tens digit of all the three numbers of step 3 is taken to form the first number of step 4.
Product of the unit digit of all the three numbers of step 3 is taken to form the second number of step 4.

Step 3: 853614
Step 4: 24120

Reference:
Step 4: 3288

Step 5: 6
Inference:

Sum of the digits of both the numbers is taken separately and then greater number is divided by the smaller number.

Step 4: 24120
Step 5: 2


Final output:
Input: 2346876472359812
Step 1: 2341238376386

Step 2: 64643145100149

Step 3: 853614
Step 4: 24120

Step 5: 2

## Answers :

1. Following the common explanation, we have

The second highest and second lowest numbers of step 2 are 100 and 45 .

Required sum is 145.

Hence option C is correct.
2. Following the common explanation, we have

2 numbers in step 1 are fully divisible by 2 .
Hence option B is correct.
3. Following the common explanation, we have

First and last numbers of step 3 are 85 and 14

Required difference is 71.

Hence option D is correct.
4. Following the common explanation, we have

31 is the third number from left end in step 2.

Hence option A is correct.
5. Following the common explanation, we have

48 is the odd one out as 48 cannot be seen in any of the steps.

Hence option D is correct.

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