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

Set 1

Directions: Read the given information carefully and answer the questions given beside:

A number sorting machine when given an input of numbers, rearranges them in a particular manner step-by-step as indicated below till all the numbers are arranged. Given below is an illustration of this arrangement.

Input : 39 121 48 18 76 112 14 45 63 96
Step I : 14 39 121 48 18 76 112 45 63 96
Step II : 14 39 48 18 76 112 45 63 96 121
Step III: 14 18 39 48 76 112 45 63 96 121
Step IV: 14 18 39 48 76 45 63 96 112 121
Step V : 14 18 39 45 48 76 63 96 112 121
Step VI: 14 18 39 45 48 63 76 96 112 121

And Step VI is the last step for this input.

Questions :

1. What will be Step III for the following input?

Input : 68 182 39 93 129 46 21 58

- A. 21 39 68 129 93 46 58 182
B. 21 39 68 93 129 46 58 182
C. 21 68 39 93 129 46 58 182
D. Can't be determined
E. None of these

2. Given below is the fifth step of an input. What will be the third step?

Step V : 17 32 43 82 69 93 49 56 99 106

- A. 17 32 82 43 69 93 49 56 99 106
B. 17 32 82 69 43 93 49 56 99 106
C. 17 32 82 69 93 43 49 56 99 106
D. 17 32 82 69 43 93 56 49 99 106
E. Can't be determined

3. What will be the last step for the following input?

Input : 138 63 49 93 89 122 32 71

- A. 32 49 63 71 89 93 122 138
B. 32 49 63 71 93 89 122 138
C. 32 49 71 63 89 93 122 138
D. Can't be determined
E. None of these

4. How many steps will be required for getting the final output for the following input?

Input : 101 85 66 49 73 39 142 25 115 74

- A. Five B. Seven C. Six D. Eight E. None of these

5. What will be the third step for the following input?

67 23 58 159 46 123 74

- A. 23 67 58 46 159 123 74 B. 23 67 58 46 123 74 159
C. 23 46 67 58 123 74 159 D. 23 46 67 58 74 123 159
E. Can't be determined

Correct Answers:

1	2	3	4	5
B	E	A	D	C

Answers :

1. The numbers are arranged in ascending order stepwise from left to right, rearranging only one number at each step - one number from the beginning and one number from the end, alternately.

Input : 68 182 39 93 129 46 21 58
Step I : 21 68 182 39 93 129 46 58
Step II : 21 68 39 93 129 46 58 182
Step III: 21 39 68 93 129 46 58 182

Hence, Option B is correct.

2. Since the number may be rearranged in several possible ways, so it is not possible to determine any of the previous steps.

Hence, Option E is correct.

3. Clearly, the last step would be the one containing the whole set of numbers in an ascending order from left to right

Hence, Option A is correct.

4.

Input : 101 85 66 49 73 39 142 25 115 74
Step I : 25 101 85 66 49 73 39 142 115 74
Step II : 25 101 85 66 49 73 39 115 74 142
Step III : 25 39 101 85 66 49 73 115 74 142
Step IV : 25 39 101 85 66 49 73 74 115 142
Step V : 25 39 49 101 85 66 73 74 115 142
Step VI : 25 39 49 85 66 73 74 101 115 142
Step VII : 25 39 49 66 85 73 74 101 115 142
Step VIII: 25 39 49 66 73 74 85 101 115 142

Hence, Option D is correct.

5.

Input : 67 23 58 159 46 123 74
Step I : 23 67 58 159 46 123 74
Step II : 23 67 58 46 123 74 159
Step III: 23 46 67 58 123 74 159

Hence, Option C is correct.



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