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

Set 52

Directions: Study the following example and answer the question.

An electronic device rearranges numbers step-by-step in a particular order according to a set of rules. the device stops when the final result is obtained. In this case the device stops at step V.

Input: 75 06 26 03 29 91 62 58

Step I: 91 75 06 26 03 29 62 58

Step II: 91 75 62 06 26 03 29 58

Step III: 91 75 62 58 06 26 03 29

Step IV: 91 75 62 58 29 06 26 03

Step V: 91 75 62 58 29 26 06 03

Questions :

1. Which of the following will be step III for the input below?

Input 04 22 18 29 31 16 11 03

- A. 31 22 29 04 18 16 11 03 B. 31 04 22 18 29 16 11 03 C. 31 29 04 22 18 16 11 03
D. 31 29 22 04 18 16 11 03 E. None of the above

2. At which step does we get the final output of the given input?

Input : 11 06 24 47 05 03

- A. Step II B. Step III C. Step IV D. Step V E. None of the above

3. What is the output of step IV for the input below?

Input : 22 09 98 17 87 03

- A. 98 09 22 17 87 03 B. 98 87 22 09 17 03 C. 98 87 17 22 09 03
D. There is no such step. E. None of options A, B and C

4. Which one of the following will be the step III for the step I of an input?

Step I : 87 29 41 20 14 26

- A. 87 29 26 41 20 14 B. 87 41 26 29 20 14 C. 87 41 29 26 14 20
D. 87 41 29 26 20 14 E. None of the above

5. If the output of Step IV is as given below, what was the input?

Step IV : 90 85 73 65 25 18 04

A. 04 73 90 65 18 25 85

B. 18 73 90 65 04 85 25

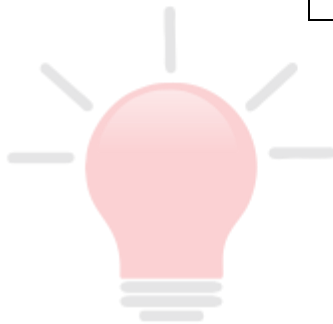
C. 73 18 90 65 04 85 25

D. Can't be determined

E. None of the above

Correct Answers:

1	2	3	4	5
B	C	B	A	B



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Common explanation:

From the input to the output it is clear that the electronic device just arranges all the number in a decreasing order. It does so by progressively getting the largest number to the left most place in Step I and the second largest number to the immediate right of the largest number in the Step II and son on.

Input: 75 06 26 03 29 91 62 58
Step I: 91 75 06 26 03 29 62 58
Step II: 91 75 62 06 26 03 29 58
Step III: 91 75 62 58 06 26 03 29
Step IV: 91 75 62 58 29 06 26 03
Step V: 91 75 62 58 29 26 06 03



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Answers :

1. Input: 04 22 18 29 31 16 11 03

Step I: 31 04 22 18 29 16 11 03

Step II: 31 29 04 22 18 16 11 03

Step III: 31 29 22 04 18 16 11 03

Option D matches with this third step.

Hence, option D is correct.

2. Input: 11 06 24 47 05 03

Step I: 47 11 06 24 05 03

Step II: 47 24 11 06 05 03

And we get the final step at Step II.

Option A is correct.

3. Input : 22 09 98 17 87 03

Step I : 98 22 09 17 87 03

Step II: 98 87 22 09 17 03

Step III: 98 87 22 17 09 03

And we get the final output. Clearly, there is no Step IV for the given input.

Option D is correct.

4. Step I: 87 29 41 20 14 26

Step II: 87 41 29 20 14 26

Step III: 87 41 29 26 20 14

Thus, step III is the final step.

Option D is the correct answer.

5. It is not possible to determine a unique input in such situations as there are multiple inputs that are possible which can give you Step IV as described.

Hence, option D is correct.



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