



SEQUENTIAL OUTPUT TRACING



Directions: Study the following arrangement carefully and then answer the following questions:

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 : 85 16 36 04 19 97 63 09
Step I : 97 85 16 36 04 19 63 09
Step II : 97 85 63 16 36 04 19 09
Step III : 97 85 63 36 16 04 19 09
Step IV : 97 85 63 36 19 16 04 09
Step V : 97 85 63 36 19 16 09 04

Larger
Descending

I → 32 9 25 16 30 18 17 6
II → 32 30 9 25 16 18 17 6
III → 32 30 25 9 16 18 17 6

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

Input : 09 25 16 30 32 18 17 06

- (a) 32 30 25 09 16 18 17 06
(b) 32 30 09 25 16 18 17 06
(c) 32 09 25 16 30 18 17 06
(d) 32 30 09 25 16 19 17 06



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Input : 85 16 36 04 19 97 63 09

Step I : 97 85 16 36 04 19 63 09

Step II : 97 85 63 16 36 04 19 09

Step III : 97 85 63 36 16 04 19 09

Step IV : 97 85 63 36 19 16 04 09

Step V : 97 85 63 36 19 16 09 04

Which is the last step for the input below?

Input : 16 09 25 27 06 05

☒ (a) Step II

(b) Step III

(c) Step IV

(d) None of these

Descending
I → 27 16 9 25 6 5
II → 27 25 16 9 6 5



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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 : 85 16 36 04 19 97 63 09

Step I : 97 85 16 36 04 19 63 09

Step II : 97 85 63 16 36 04 19 09

Step III : 97 85 63 36 16 04 19 09

Step IV : 97 85 63 36 19 16 04 09

Step V : 97 85 63 36 19 16 09 04

What is the output of Step V for the input below?

Input : 25 08 35 11 88 67 23

(a) 08 11 23 25 35 67 88

✓ (b) 88 67 35 25 23 11 08

(c) 88 67 35 25 23 08 11

(d) None of these

I → 88 25 8 35 11 67 23

II → 88 67 25 8 35 11 23

III → 88 67 35 25 8 11 23

IV → 88 67 35 25 23 8 11

V → 88 67 35 25 23 11 8



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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 : 85 16 36 04 19 97 63 09

Step I : 97 85 16 36 04 19 63 09

Step II : 97 85 63 16 36 04 19 09

Step III : 97 85 63 36 16 04 19 09

Step IV : 97 85 63 36 19 16 04 09

Step V : 97 85 63 36 19 16 09 04

Descending
order

I → 43 3 31 22 11 9

II → 43 31 3 22 4 9

III → 43 31 22 3 11 9

IV → 43 31 22 11 3 9

V → 43 31 22 11 9 3

Which of the following would be the last step for the input below?

Input : 03 31 43 22 11 09

(a) Step II

(b) Step III

(c) Step IV

(d) None of these



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Directions: Study the following arrangement carefully and then answer the following questions:

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 : 85 16 36 04 19 97 63 09

Step I : 97 85 16 36 04 19 63 09

Step II : 97 85 63 16 36 04 19 09

Step III : 97 85 63 36 16 04 19 09

Step IV : 97 85 63 36 19 16 04 09

Step V : 97 85 63 36 19 16 09 04

If the output of step IV is as given below, what was the input?

Step IV : 92 86 71 69 15 19 06 63 58

(a) 15 19 06 63 58 86 92 69 71

(b) 15 86 19 92 06 69 63 58 71

(c) 86 92 69 71 15 19 06 63 58

(d) ☒ Cannot be determined