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Boost up Machine Input Output Questions (New Pattern)

By – Deepali Mam (Reasoning Expert)



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What Is Input- Output?

Machine Input-Output or Input-Output basically refers to a type in which students are told that a certain statement when went a certain operation then a certain we get a certain output. Students are expected to find that logic and then solve another set of question following the same logic. You can find questions on this topic in prelims as well as in Mains. The difference between the two exams is the level of difficulty.

Points To Remember

- (1) In Input-output, students are advised to pay keen attention to understand the pattern of the steps, how they are arranging.
- (2) After looking at the first step and then to the last step can actually help you to understand the pattern of question.
- (3) There are other pattern as well which you will understand so be careful in mix shifting pattern, i.e. shifting from both left and right side.
- (4) There are some questions in which characters/digits get automatically arranged in steps.



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(5) One of the most important thing is to be noted that from given step, previous step can't be determined.

Previous Year Asked Machine Input Output Questions (Memory Based) (BankExam)

Direction (1-5): Study the following information carefully and answer the questions given below.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and rearrangement.

Input: Tree Fast 83 Moon 28 42 Scan Acts 59 15

Step I: Acts Tree Fast Moon 28 42 Scan 59 15 83

Step II: Fast Acts Tree Moon 28 42 Scan 15 83 59

Step III: Moon Fast Acts Tree 28 Scan 15 83 59 42

Step IV: Scan Moon Fast Acts Tree 15 83 59 42 28

Step V: Tree Scan Moon Fast Acts 83 59 42 28 15

And Step V is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.



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Input: Jacks 32 Smooth Verify 97 45 Bricks Goods 61 20

1) Which of the following element will be fifth from the right end in Step III?

- a) 20
- b) 97
- c) Bricks
- d) Verify
- e) Smooth

2) How many elements are there in between 'Goods' and '20' in the Step IV?

- a) Two
- b) Three
- c) Four
- d) One
- e) Five

3) In which step the elements 'Bricks 32 Smooth' found in the same order?

- a) Step I
- b) Step II
- c) Step III
- d) Step IV



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e) Step V

4) If '32' is related to 'Bricks' in the Step II and '61' is related to 'Bricks' in the last step. Then, 'Smooth' is related to which of the following in the Step I?

a) Verify

b) 97

c) 61

d) Goods

e) Jacks

5) Which of the following element is fourth to the right of the element 'Goods' in the step last but one?

a) 20

b) 97

c) Verify

d) 45

e) Smooth

Answers:

Logic: The words are arranged in ascending order as per in the dictionary from the left end of the row. The numbers are arranged in descending order from the right end.



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Input: Jacks 32 Smooth Verify 97 45 Bricks Goods 61 20

Step I: Bricks Jacks 32 Smooth Verify 45 Goods 61 20 97

Step II: Goods Bricks Jacks 32 Smooth Verify 45 20 97 61

Step III: Jacks Goods Bricks 32 Smooth Verify 20 97 61 45

Step IV: Smooth Jacks Goods Bricks Verify 20 97 61 45 32

Step V: Verify Smooth Jacks Goods Bricks 97 61 45 32 20

1) Answer: D

2) Answer: A

3) Answer: C

4) Answer: E

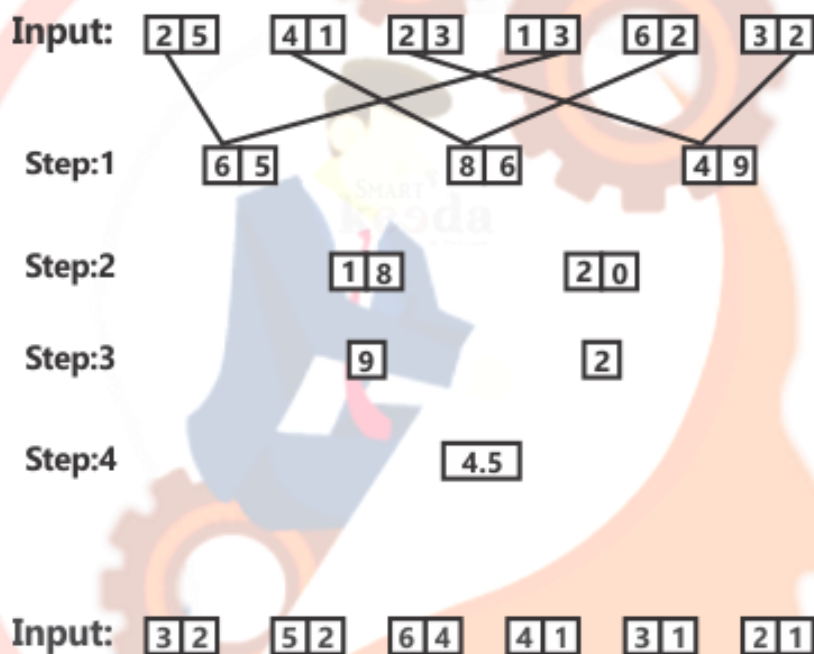
5) Answer: B



New Pattern Input Output Questions (Boost-UP)

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

The first step has been obtained by multiplying the digits in input. No other step uses multiplication concept. They are obtained by applying certain logic. Numbers of step II have been obtained by using at least 1 digit of each number in step 1. Each step is a resultant of previous step



Question 1: What is the difference between the numbers of Step II?

- A) 6
- B) 10
- C) 12
- D) 8



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E) None of these

Question 2: Which of the following will be the double of Last step?

- A) 5
- B) 2.5
- C) 7.5
- D) 9
- E) None of these

Question 3: What is the sum of largest and the smallest number of step I?

- A) 106
- B) 112
- C) 96
- D) 72
- E) None of these

Question 4: If the difference of the number of step III is multiplied by step IV, what will be the resultant number?

- A) 2.5
- B) 3
- C) 9
- D) 1.25
- E) None of these

Question 5: Which of the following is one of the numbers of any step?

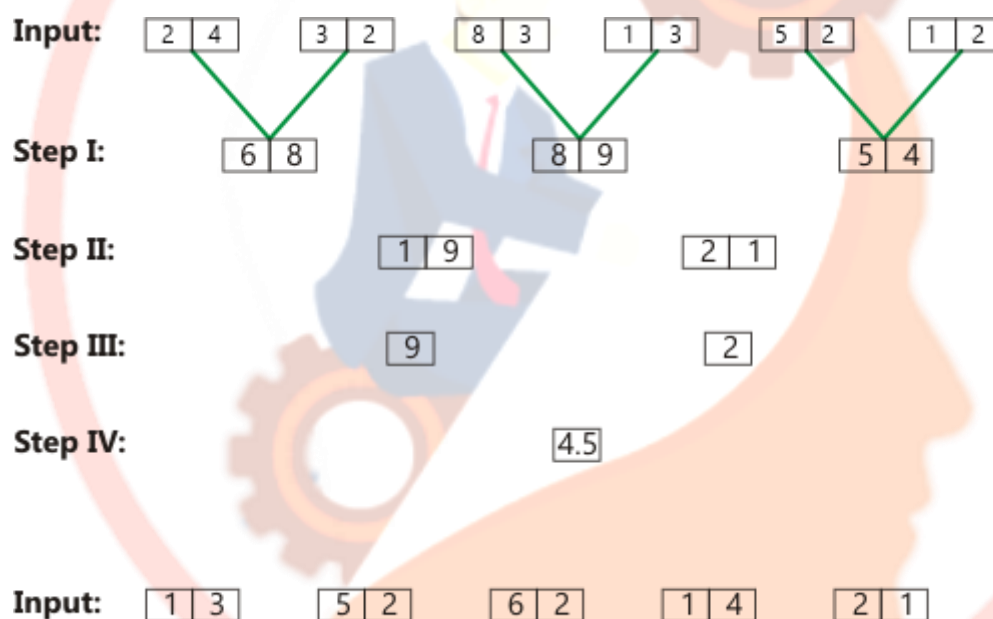
- A) 58
- B) 22



- C) 30
- D) 12
- E) None of these

Directions: Study the following information carefully and answer the questions given below:

The first step has been obtained by multiplying the digits in input. The next steps are not obtained the same way. They are obtained by applying certain logic. Numbers of step II have been obtained by using at least 1 digit of each number in step 1. Each step is a resultant of previous step.



Question 6: Which of the following will be the last step?

- A) 6
- B) 7.5
- C) 3.5
- D) 5



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E) None of these

Question 7: What is the sum of the numbers of step III?

- A) 9
- B) 12
- C) 18
- D) 26
- E) None of these

Question 8: If we do half of each number in step II, what will be the difference of those numbers?

- A) 0
- B) 1
- C) 2
- D) 3
- E) None of these

Question 9: Which of the following is a number in step I?

- A) 64
- B) 32
- C) 69
- D) 67
- E) None of these

Question 10: If the sum of numbers of step III is multiplied by step IV, find the resultant number.

- A) 31.5
- B) 50



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- C) 26.4
- D) 37.5
- E) None of these

Input Output Answer Key

Question 1:

Correct Option: D

Difference between the numbers of Step II is 8. Option D, is hence the correct answer.

Question 2:

Correct Option: B

2.5 is the double of Last step. Option B, is hence the correct answer.

Question 3:

Correct Option: A

106 is the sum of largest and the smallest number of step I. Option A, is hence the correct answer.

Question 4:

Correct Option: D

1.25 is the resultant number. Option D, is hence the correct answer.

Question 5:

Correct Option: B

22 is one of the numbers of any step. Option B, is hence the correct answer.



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Question 6:

Correct Option: C

Following the common explanation, we can say that 3.5 is the last step. Hence, the correct answer is option C.

Question 7:

Correct Option: A

The sum of the numbers of step III is 9. Hence, the correct answer is option A.

Question 8:

Correct Option: D

If we do half of each number in step II, the difference of those numbers will be 2. Hence, the correct answer is option D.

Question 9:

Correct Option: D

67 is in step I. Hence, the correct answer is option D.

Question 10:

Correct Option: A The resultant number will be 31.5. Hence, the correct answer is option A.

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