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

Set No 27

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

Input: 88 25 68 56 58 83 94

Step I: 88 68 25 56 58 83 94

Step II: 88 68 94 25 56 58 83

Step III: 88 68 94 58 25 56 83

Step IV: 88 68 94 58 83 25 56

Step V: 88 68 94 58 83 56 25

Step V is the last step of the arrangement.

Following the same pattern solve the questions given below.

Questions :

1. Which of the following will be step III of the input '87 37 54 98 46 29'?

- A. 98 87 29 37 46 54 B. 98 87 29 46 37 54 C. 87 98 29 37 46 54
D. 98 87 29 46 54 37 E. None of these

2. How many steps will be required to complete the arrangement '38 71 26 93 37 44 54'?

- A. II B. III C. IV D. V E. None of these

3. Which of the following would be the input step for the arrangement whose step IV is '75 49 63 45 53 16 26 41'?

- A. 45 75 49 53 16 26 63 41 B. 45 49 53 16 63 75 26 41 C. 75 63 49 53 45 16 41 26
D. 16 63 45 53 49 75 26 41 E. Can't be determined

4. Which of the following will be step IV of the input '90 29 72 84 55 76'?

- A. 84 76 55 29 90 72 B. 76 84 29 55 90 72 C. 84 76 55 29 72 90
D. 76 84 29 72 90 55 E. None of these

5. Which of the following will be '95 77 49 56 82 37' of the input '82 49 56 77 95 37'?

- A. III B. IV C. V D. VI E. None of these

Correct Answers:

1	2	3	4	5
B	C	E	B	B

Common Explanations:

Reference:

Input: 88 25 68 56 58 83 94

Step I: 88 68 25 56 58 83 94

Step II: 88 68 94 25 56 58 83

Step III: 88 68 94 58 25 56 83

Step IV: 88 68 94 58 83 25 56

Step V: 88 68 94 58 83 56 25

Step V is the last step of the arrangement.

Inference:

Here, the numbers are arranged as the number whose sum of the digits is highest is arranged on the extreme left in the Step I after that the number whose sum of the digits is second highest is arranged the right of the number arranged in step I.

Number	Digits Sum
88	16
68	14
94	13
58	13
83	11
56	11
25	7

As the digits sum of both '94' and '58' is same, then the highest number i.e. 94 will be arranged first. Similarly, the digits sum of both '83' and '56' is same, then the highest number i.e. 83 will be arranged first.

Number	Arrangement Step
88	Step I
68	Step II
94	Step III
58	Step IV
83	Step V
56	Step VI
25	Step VII

As the arrangement of the numbers follows the left to right pattern therefore it might be possible that some numbers are arranged automatically.

Answers :

1. Following the common explanation, we can say that step III of the given input will be:

Input: 87 37 54 98 46 29

Step III: 98 87 29 46 37 54

Hence, the correct answer is option **B**.

2. Following the common explanation, we can say that IV steps will be required to complete the arrangement.

Input: 38 71 26 93 37 44 54

Step IV: 93 38 37 54 71 44 26

Hence, the correct answer is option **C**.

3. Following the common explanation, we can say we cannot find the input step for the arrangement whose step IV is '75 49 63 45 53 16 26 41'.

Hence, the correct answer is option **E**.

4. Following the common explanation, we can say that step IV of the given input will be:

Input: 90 29 72 84 55 76

Step IV: 76 84 29 55 90 72

Hence, the correct answer is option **B**.

5. Following the common explanation, we can say that '76 84 29 55 90 72' is step IV of the given input.

Input: 82 49 56 77 95 37

Step IV: 95 77 49 56 82 37

Hence, the correct answer is option **B**.



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