Sequential Output Tracing Questions for IBPS Clerk, IBPS PO Pre, IBPS SO Pre, SBI Clerk, SBI PO Pre, RRB Scale I Pre

Sequential Output Tracing Quiz 16

Directions: 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 input and rearrangement.

Input : roam 29 river 48 rescue 76 rest 20 roast 42

Step1: roast 20 roam 29 river 48 rescue 76 rest 42

Step2: river 29 roast 20 roam 48 rescue 76 rest 42

Step3: rescue 42 river 29 roast 20 roam 48 76 rest

Step4: rest 48 rescue 42 river 29 roast 20 roam 76

Step5: roam 76 rest 48 rescue 42 river 29 roast 20

Find the different steps of output using the above mentioned logic for the following input.

Input: flora 39 famine 64 flow 12 fog 79 favour 61

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1. How many elements are there between the first even number from left end and the second odd number from right end in step 4?

A. None   B. One   C. Two

D. Three   E. None of these

2. In which of the following steps, "12 flora famine" is seen in the same sequence for the first time?

A. Step 2   B. Step 3   C. Step 4

D. Step 5   E. None of these

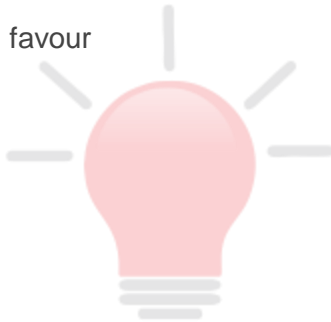**3. Which of the following steps is "flora 61 flow 39 favour famine 12 64 fog 79"?**

A. Step 1

B. Step 5

C. Step 3

D. Step 4

E. There is no such step

4. Which of the following is third to the left of the second element from right end in step 2?

A. flora

B. famine

C. 12

D. 64

E. None of these

5. Which of the following immediately precedes 'flow' in step 5?

A. flora

B. 39

C. 61

D. favour

E. 12

Correct answers:

1	2	3	4	5
D	A	E	B	C

Explanations:

1.
The first even number from left end is 64 and the second odd number from right end is 39, so the number of elements between them is 3.
Hence option D is correct.

2.
"12 flora famine" is seen in the same sequence for the first time in step 2.
Step 2: flow 39 favour 12 flora famine 64 fog 79 61
Hence option A is correct.

3.
There is no step like "flora 61 flow 39 favour famine 12 64 fog 79".
Hence option E is correct.

4.
Second element from right end in step 2 is '79', third to the left of 79 is "famine".
Step 2 :flow 39 favour 12 flora **famine** 64 fog **79** 61
Hence option B is correct.

5.
In step 5, the element that immediately precedes 'flow' is 61.
Step 5 :fog 79 famine 64 flora **61 flow** 39 favour 12
Hence option C is correct.

Final Output:

Input   :flora 39 famine 64 flow 12 fog 79 favour 61
Step 1 :favour 12 flora 39 famine 64 flow fog 79 61
Step 2 :flow 39 favour 12 flora famine 64 fog 79 61
Step 3 :flora 61 flow 39 favour 12 famine 64 fog 79
Step 4 :famine 64 flora 61 flow 39 favour 12 fog 79
Step 5 :fog 79 famine 64 flora 61 flow 39 favour 12

Common Explanation:

The given output is obtained by following the below mentioned logic.

Change in Word- The words are arranged to the left most end of each step on the basis of the sum of letters in the word. The word having highest sum is considered first for the rearrangement. The sum of letters is obtained by considering A-Z of english alphabetical series as 1-26.

Change in Number- The number is placed in lowest to highest order after the word at extreme left end. First the lowest number is placed then the second lowest and then so on.
Note- Changes in word and number takes place simultaneously at each step. Numbers are placed immediately after the word.

Reference:
Input : roam 29 river 48 rescue 76 rest 20 roast 42
Step1: roast 20 roam 29 river 48 rescue 76 rest 42

S. No.	Word	Sum of letters	Order of preference
1	roam	47	5th
2	river	72	2nd
3	rescue	71	3rd
4	rest	62	4th
5	roast	73	1st

Inference:

On the basis of our reference and logic following table shows the order of preference of words and numbers are arranged as per ascending order i.e. lowest to highest.

S. No.	Word	Sum of letters	Order of preference
1	flora	52	3rd
2	famine	48	4th
3	flow	56	2nd
4	fog	28	5th
5	favour	83	1st

Input   :flora 39 famine 64 flow 12 fog 79 favour 61
Step 1 :favour 12 flora 39 famine 64 flow fog 79 61

Reference:
Step1: roast 20 roam 29 river 48 rescue 76 rest 42
Step2: river 29 roast 20 roam 48 rescue 76 rest 42

Inference:
Step 1 :favour 12 flora 39 famine 64 flow fog 79 61
Step 2 :flow 39 favour 12 flora famine 64 fog 79 61

Reference:
Step2: river 29 roast 20 roam 48 rescue 76 rest 42
Step3: rescue 42 river 29 roast 20 roam 48 76 rest

Inference:
Step 2 :flow 39 favour 12 flora famine 64 fog 79 61
Step 3 :flora 61 flow 39 favour 12 famine 64 fog 79

Reference:
Step3: rescue 42 river 29 roast 20 roam 48 76 rest
Step4: rest 48 rescue 42 river 29 roast 20 roam 76

Inference:
Step 3 :flora 61 flow 39 favour 12 famine 64 fog 79
Step 4 :famine 64 flora 61 flow 39 favour 12 fog 79

Reference:
Step4: rest 48 rescue 42 river 29 roast 20 roam 76
Step5: roam 76 rest 48 rescue 42 river 29 roast 20

Inference:
Step 4 :famine 64 flora 61 flow 39 favour 12 fog 79
Step 5 :fog 79 famine 64 flora 61 flow 39 favour 12