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

Set No 23

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: developer 76 carpenter 53 duster 61 per 24 storekeeper 38

Step1: 26 developer 76 carpenter 53 duster 61 storekeeper 38 per

Step2: 40 26 developer 76 carpenter 53 61 storekeeper per duster

Step3: 51 40 26 developer 76 61 storekeeper per duster carpenter

Step4: 59 51 40 26 76 storekeeper per duster carpenter developer

Step5: 78 59 51 40 26 per duster carpenter developer storekeeper

Step 5 is the final output.

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

Input: flip 64 championship 37 internship 29 philip 71 companionship 55

Questions :

1. In which of the following steps "internship 71" is seen in the same sequence for the first time?

A. Step 1   B. Step 2   C. Step 3   D. Input   E. None of these

2. How many words are to the right of '27' in step 4?

A. Three   B. Two   C. Five   D. Four   E. More than five

3. What is the difference between the highest and the lowest numbers of step 3?

A. 51   B. 28   C. 44   D. 36   E. None of these

4. Which of the following elements is fourth to the left of 'internship' in step 5?

A. 53   B. 35   C. flip   D. 27   E. None of these

5. Which of the following elements is/are between 'internship' and 'flip' in step 2?

A. 71 and 55   B. companionship   C. 55 and companionship   D. Both A and B
E. None of these

Correct Answers:

1	2	3	4	5
B	C	C	B	D

Common Explanations:

Change in Number: Change in numbers take place as per the ascending order. If the number is odd then subtract 2 from it and shift it to the extreme left end. If number is even then add 2 to it and shift it to the extreme left end.

Change in Word: Change in words take place as per the ascending order of the number of vowels in each word. Words are shifted to the extreme right end.

Note: Changes in word and number take place simultaneously in each step.

The given pattern:

Input: developer 76 carpenter 53 duster 61 per 24 storekeeper 38

Step1: 26 developer 76 carpenter 53 duster 61 storekeeper 38 per

Step2: 40 26 developer 76 carpenter 53 61 storekeeper per duster

Step3: 51 40 26 developer 76 61 storekeeper per duster carpenter

Step4: 59 51 40 26 76 storekeeper per duster carpenter developer

Step5: 78 59 51 40 26 per duster carpenter developer storekeeper

Solution to the given input:

Input: flip 64 championship 37 internship 29 philip 71 companionship 55

Step1: 27 64 championship 37 internship philip 71 companionship 55 flip

Step2: 35 27 64 championship internship 71 companionship 55 flip philip

Step3: 53 35 27 64 championship 71 companionship flip philip internship

Step4: 66 53 35 27 71 companionship flip philip internship championship

Step5: 69 66 53 35 27 flip philip internship championship companionship

Answers :

1. From the following output it is clear that 'internship 71' is seen in the same sequence for the first time in step 2.

Step2: 35 27 64 championship **internship 71** companionship 55 flip philip

Hence option B is correct.

2. From the following output it is clear that there are 5 words to the right of 27 in step 4.

Step4: 66 53 35 **27** 71 companionship flip philip internship championship

Hence option C is correct.

3. From the following output it is clear that the highest number in step 3 is 71 and the lowest number in step 3 is 27.

Required difference = 44.

Step3: 53 35 27 64 championship 71 companionship flip philip internship

Hence option C is correct.

4. From the following output it is clear that 35 is fourth to the left of 'internship' in step 5.

Step5: 69 66 53 **35** 27 flip philip **internship** championship companionship

Hence option B is correct.

5. From the following output it is clear that 'companionship, 71 and 55' are between 'internship' and 'flip'.

Step2: 35 27 64 championship **internship** 71 companionship 55 **flip** philip

Hence option D is correct.