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Sequential Output Tracing Quiz Questions for SBI Clerk Pre, IBPS Clerk Pre and IBPS RRB Exams.

Set No 30

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: name 72 nest 24 near 35 nostalgic 43 narrow 67

Step1: 72 nest near 35 nostalgic 43 narrow 67 name 242

Step2: 72 nest near nostalgic 43 67 name 242 narrow 335

Step3: 72 nest nostalgic 67 name 242 narrow 335 near 343

Step4: 72 nostalgic name 242 narrow 335 near 343 nest 367

Step5: name 242 narrow 335 near 343 nest 367 nostalgic 722

Step 5 is the final output.

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

Input: team 55 taboo 48 tackle 83 tissue 69 test 11.

Questions :

1. In which of the following steps, 'taboo' is placed at third from the left end?

- A. Step 1 B. Input C. Step 4 D. Either A or B E. None of these

2. Which of the following is the final output?

- A. taboo 311 tackle 482 test 355 team 369 tissue 383
B. taboo 311 tackle 482 team 355 test 369 tissue 383
C. tissue 383 taboo 311 tackle 482 team 355 test 369
D. tackle 482 team 355 test 369 tissue 383 taboo 311
E. None of these

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

- A. 268 B. 316 C. 393 D. 413 E. None of these

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

- A. 83 B. tissue C. 69 D. test E. None of these

5. In which of the following steps "83 tissue taboo" is seen in the same sequence?

- A. Step 4 B. Step 5 C. Step 3 D. Both Step 3 and step 4 E. None of these

Correct Answers:

1	2	3	4	5
E	B	D	C	A

Common Explanation:

Change in Word: Change in words takes place as per the dictionary order and placed at the right end just before the number.

Change in Number: Change in numbers takes place as per the ascending order. Thereafter numbers are changed to a new number which is obtained by application of the following rules and then shifted to the extreme right end.

Rule I: If the number is even, then place '2' at the end of the number.

Rule II: If the number is odd, then place '3' at the beginning of the number.

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

The given pattern:

Input: name 72 nest 24 near 35 nostalgic 43 narrow 67

Step1: 72 nest near 35 nostalgic 43 narrow 67 name 242

Step2: 72 nest near nostalgic 43 67 name 242 narrow 335

Step3: 72 nest nostalgic 67 name 242 narrow 335 near 343

Step4: 72 nostalgic name 242 narrow 335 near 343 nest 367

Step5: name 242 narrow 335 near 343 nest 367 nostalgic 722

Solution to the given input:

Input: team 55 taboo 48 tackle 83 tissue 69 test 11

Step1: team 55 48 tackle 83 tissue 69 test taboo 311

Step2: team 55 83 tissue 69 test taboo 311 tackle 482

Step3: 83 tissue 69 test taboo 311 tackle 482 team 355

Step4: 83 tissue taboo 311 tackle 482 team 355 test 369

Step5: taboo 311 tackle 482 team 355 test 369 tissue 383

Answers :

1. From the following output it is clear that 'taboo' is third from left in "Input" as well as in "step 4."
Hence option E is correct.

2. From the following output it is clear that "taboo 311 tackle 482 team 355 test 369 tissue 383" is the final output.

Step 5: taboo 311 tackle 482 team 355 test 369 tissue 383

Hence option B is correct.

3. From the following output it is clear that the difference between the highest and the lowest numbers of step 3 is 413.

Step3: 83 tissue **69** test taboo 311 tackle **482** team 355

Hence option D is correct.

4. From the following output it is clear that '69' is second to the left of fourth element from right end in step 2.

Step2: team 55 83 tissue **69** test **taboo** 311 tackle 482

Hence option C is correct.

5. From the following output it is clear that '83 tissue taboo' is seen in the same sequence in step 4.

Hence option A is correct.

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