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Sequential Output Tracing Quiz Questions for IBPS PO Pre, RRB Scale I Pre, SBI PO Pre, Canara Bank PO, Syndicate Bank PO, IBPS SO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 31

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: faster 24 and 37 rapid 61 progressive 18 requirement 85 building 93
Step I:24 faster and 37 rapid 61 progressive 18 requirement 85 building 93
Step II:24 progressive faster and 37 rapid 61 18 requirement 85 building 93
Step III:24 progressive 61 faster and 37 rapid 18 requirement 85 building 93
Step IV:24 progressive 61 requirement faster and 37 rapid 18 85 building 93
Step V:24 progressive 61 requirement 18 faster and 37 rapid 85 building 93
Step VI:24 progressive 61 requirement 18 building faster and 37 rapid 85 93
Step VII:24 progressive 61 requirement 18 building 37 faster and rapid 85 93
Step VIII:24 progressive 61 requirement 18 building 37 faster 93 and rapid 85
Step IX:24 progressive 61 requirement 18 building 37 faster 93 rapid and 85
Step X: 24 progressive 61 requirement 18 building 37 faster 93 rapid 85 and

Step X is the final output.

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

Input : technology 47 transfer 26 rate 72 achieving 51 extra 91 version 32

Questions :

1.   How many steps are needed to reach the final output?

A. Ten   B. Nine   C. Eight   D. Eleven   E. None of these

2.   Which of the following is fourth to the left of '47' in step VI?

A. version   B. 51   C. transfer   D. 26   E. 91

3.   In which of the following steps "version 91 47 rate" is seen in the same sequence?

A. Step IX   B. Step VIII   C. Both A or B   D. Step VII   E. None of these

4. **Which of the following comes exactly between 51 and 91 in step III?**

A. rate   B. 26   C. extra   D. 72   E. None of these

5. **Which of the following is seventh from the right end in final output?**

A. transfer   B. achieving   C. extra   D. 72   E. None of these

Correct Answers:

1	2	3	4	5
B	C	B	A	B

Common Explanation:

Change in Number: Change in numbers take place as per the ascending order of the sum of the digits of each number. The number whose sum of digits is smallest is placed at extreme left end followed by the number whose sum of digits is second smallest and so on.

Change in Word: Change in words take place in descending order of number of consonants in each word.The word with the highest number of consonants is placed at left end (immediately after the number) followed by the word with the second highest number of consonants and so on.

Note: Changes in word and number take place in alternate steps starting with number first. If in a step, a number is already at the desired place then for that particular step operation will be performed on word and vice-versa.

The given pattern:

Input: faster 24 and 37 rapid 61 progressive 18 requirement 85 building 93
Step I:24 faster and 37 rapid 61 progressive 18 requirement 85 building 93
Step II:24 progressive faster and 37 rapid 61 18 requirement 85 building 93
Step III:24 progressive 61 faster and 37 rapid 18 requirement 85 building 93
Step IV:24 progressive 61 requirement faster and 37 rapid 18 85 building 93
Step V:24 progressive 61 requirement 18 faster and 37 rapid 85 building 93
Step VI:24 progressive 61 requirement 18 building faster and 37 rapid 85 93
Step VII:24 progressive 61 requirement 18 building 37 faster and rapid 85 93
Step VIII:24 progressive 61 requirement 18 building 37 faster 93 and rapid 85
Step IX:24 progressive 61 requirement 18 building 37 faster 93 rapid and 85
Step X: 24 progressive 61 requirement 18 building 37 faster 93 rapid 85 and

Table showing change in the given pattern:

Change in Word			Change in Number		
Word	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
faster	4	4th	24	6	1st
and	2	6th	37	10	4th
rapid	3	5th	61	7	2nd
progressive	7	1st	18	9	3rd
requirement	6	2nd	85	13	6th
building	5	3rd	93	12	5th

Output for the asked input:

Input: technology 47 transfer 26 rate 72 achieving 51 extra 91 version 32
Step I:32 technology 47 transfer 26 rate 72 achieving 51 extra 91 version
Step II:32 technology 51 47 transfer 26 rate 72 achieving extra 91 version
Step III:32 technology 51 transfer 47 26 rate 72 achieving extra 91 version
Step IV:32 technology 51 transfer 26 47 rate 72 achieving extra 91 version
Step V:32 technology 51 transfer 26 achieving 47 rate 72 extra 91 version
Step VI:32 technology 51 transfer 26 achieving 72 47 rate extra 91 version
Step VII:32 technology 51 transfer 26 achieving 72 version 47 rate extra 91
Step VIII:32 technology 51 transfer 26 achieving 72 version 91 47 rate extra
Step IX:32 technology 51 transfer 26 achieving 72 version 91 extra 47 rate

Table showing change in the asked input:

Change in Word			Change in Number		
Word	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
technology	7	1st	47	11	6th
transfer	6	2nd	26	8	3rd
rate	2	6th	72	9	4th
achieving	5	3rd	51	6	2nd
extra	3	5th	91	10	5th
version	4	4th	32	5	1st

Answers :

1. From the following output it is clear that 9 steps are needed to reach the final output.

Hence option B is correct.

2. From the following output it is clear that 'transfer' is fourth to the left of 47 in step VI.

Step VI:32 technology 51 **transfer** 26 achieving 72 **47** rate extra 91 version

Hence option C is correct.

3. From the following output it is clear that "version 91 47 rate" is seen in the same sequence in step VIII.

Step VIII:32 technology 51 transfer 26 achieving 72 **version 91 47 rate** extra

Hence option B is correct.

4. From the following output it is clear that 'rate' is exactly between 51 and 91 in step III.

Step III:32 technology **51** transfer 47 26 **rate** 72 achieving extra **91** version

Hence option A is correct.

5. From the following output it is clear that 'achieving' is seventh from right end in finl output.

Step IX:32 technology 51 transfer 26 **achieving** 72 version 91 extra 47 rate

Hence option B is correct.