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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	4 <sup>th</sup>	24	6	1 <sup>st</sup>
and	2	6 <sup>th</sup>	37	10	4 <sup>th</sup>
rapid	3	5 <sup>th</sup>	61	7	2 <sup>nd</sup>
progressive	7	1 <sup>st</sup>	18	9	3 <sup>rd</sup>
requirement	6	2 <sup>nd</sup>	85	13	6 <sup>th</sup>
building	5	3 <sup>rd</sup>	93	12	5 <sup>th</sup>

**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	1 <sup>st</sup>	47	11	6 <sup>th</sup>
transfer	6	2 <sup>nd</sup>	26	8	3 <sup>rd</sup>
rate	2	6 <sup>th</sup>	72	9	4 <sup>th</sup>
achieving	5	3 <sup>rd</sup>	51	6	2 <sup>nd</sup>
extra	3	5 <sup>th</sup>	91	10	5 <sup>th</sup>
version	4	4 <sup>th</sup>	32	5	1 <sup>st</sup>

## 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 final output.  
Step IX:32 technology 51 transfer 26 **achieving** 72 version 91 extra 47 rate  
Hence option B is correct.

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