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

Set No 25

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: fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers 52

Step I: 52 fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers

Step II: 52 fertilizers fruit 29 frozen 71 vegetable 46 cultivation 39

Step III: 52 fertilizers 71 fruit 29 frozen vegetable 46 cultivation 39

Step IV: 52 fertilizers 71 cultivation fruit 29 frozen vegetable 46 39

Step V: 52 fertilizers 71 cultivation 46 fruit 29 frozen vegetable 39

Step VI: 52 fertilizers 71 cultivation 46 vegetable fruit 29 frozen 39

Step VII: 52 fertilizers 71 cultivation 46 vegetable 29 fruit frozen 39

Step VIII: 52 fertilizers 71 cultivation 46 vegetable 29 frozen fruit 39

Step IX: 52 fertilizers 71 cultivation 46 vegetable 29 frozen 39 fruit

Step IX is the final output.

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

Input: roam 12 countries 37 travelling 59 across 63 globe 94

Questions :

1. After completion of step III, how many more steps are needed to reach the final output?

- A. 7 B. 6 C. 5 D. 9 E. 4

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

- A. roam B. 63 C. 37 D. 59 E. countries

3. Which of the following sequence of elements is unique?

- A. countries 37 59 B. countries 37 across C. Both option A and B D. countries roam 37
E. None is unique

4. How many words are there between the third element from left end and second element from right end in step VIII?

- A. Three B. Two C. Four D. Five E. None of these

5. Which of the following is third to the left of 'across' in the final output?

- A. travelling B. 63 C. globe D. 59 E. None of these

Correct Answers:

1	2	3	4	5
B	C	D	A	B

Common Explanations:

Change in Number: Change in numbers take place as per the ascending order of the sum of the digits of each number.

Change in Word: Change in words take place in descending order of number of consonants in each word.

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: fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers 52

Step I: 52 fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers

Step II: 52 fertilizers fruit 29 frozen 71 vegetable 46 cultivation 39

Step III: 52 fertilizers 71 fruit 29 frozen vegetable 46 cultivation 39

Step IV: 52 fertilizers 71 cultivation fruit 29 frozen vegetable 46 39

Step V: 52 fertilizers 71 cultivation 46 fruit 29 frozen vegetable 39

Step VI: 52 fertilizers 71 cultivation 46 vegetable fruit 29 frozen 39

Step VII: 52 fertilizers 71 cultivation 46 vegetable 29 fruit frozen 39

Step VIII: 52 fertilizers 71 cultivation 46 vegetable 29 frozen fruit 39

Step IX: 52 fertilizers 71 cultivation 46 vegetable 29 frozen 39 fruit

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
fruit	3	5 th	29	11	4 th
frozen	4	4 th	71	8	2 nd
vegetable	5	3 rd	46	10	3 rd
cultivation	6	2 nd	39	12	5 th
fertilizers	7	1 st	52	7	1 st

Output for the asked input:

Input: roam 12 countries 37 travelling 59 across 63 globe 94

Step I: 12 roam countries 37 travelling 59 across 63 globe 94

Step II: 12 travelling roam countries 37 59 across 63 globe 94

Step III: 12 travelling 63 roam countries 37 59 across globe 94

Step IV: 12 travelling 63 countries roam 37 59 across globe 94

Step V: 12 travelling 63 countries 37 roam 59 across globe 94

Step VI: 12 travelling 63 countries 37 across roam 59 globe 94

Step VII: 12 travelling 63 countries 37 across 94 roam 59 globe

Step VIII: 12 travelling 63 countries 37 across 94 globe roam 59

Step IX: 12 travelling 63 countries 37 across 94 globe 59 roam

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
roam	2	5 th	12	3	1 st
countries	5	2 nd	37	10	3 rd
travelling	7	1 st	59	14	5 th
across	4	3 rd	63	9	2 nd
globe	3	4 th	94	13	4 th

Answers :

1. After completion of step III, only 6 steps are needed to reach the final output i.e. Step IX.

Hence option B is correct.

2. From the following output it is clear that 37 is fourth to the right of second element from left end in step III.

Hence option C is correct.

3. From the following output it is clear that "countries roam 37" is the only sequence which is unique i.e. not repeated in any other step.

Hence option D is correct.

4. From the following explanation it is clear that there are three words between the second element from right end and third element from left end in step VIII.

Hence option A is correct.

5. From the following explanation it is clear that '63' is third to the left of across in the final output.

Hence option B is correct.



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