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

Set 42

Directions: A word and number arrangement machine when arranges an input line of words and numbers rearranges them following a particular logic. An illustration of the same is given below.

Input: manage 46 time 23 work 13 create 78 explore 43 universe 84

Step I: work manage 46 time 23 create 78 explore 43 universe 84 13

Step II: universe work manage 46 time create 78 explore 43 84 13 23

Step III: time universe work manage 46 create 78 explore 84 13 23 43

Step IV: manage time universe work create 78 explore 84 13 23 43 46

Step V: explore manage time universe work create 78 13 23 43 46 84

Step VI: create explore manage time universe work 13 23 43 46 84 78

Step VI is the final output.

On the basis of above illustration find the different steps of rearrangement for the input given below.

Input: require 51 decade 22 build 10 trust 32 once 84 shattered 45

Questions :

1. Which of the following is third to the left of '51' in step III?

- A. shattered B. 10 C. require D. 22 E. None of these

2. What is the sum of the numbers that come between 'trust' and 'once' in step II?

- A. 107 B. 51 C. 32 D. 83 E. None of these

3. Which of the following pairs represents the elements at extreme ends in step V?

- A. once 45 B. decade 45 C. decade 51 D. once 51 E. None of these

4. Which of the following steps is – "once require shattered trust decade build 84 45 10 22 32 51"?

- A. Step II B. Step III C. Step IV D. Step V E. None of these

5. What is the difference of 9th element from the right end in step III and 8th element from left end in step VI?

A. 19

B. 29

C. 25

D. 31

E. 26

Correct Answers:

1	2	3	4	5
C	D	B	C	B



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Common Explanations:

Change in words: The words are arranged as per reverse dictionary order. i.e. the word that will come last in the dictionary is rearranged at first. The words are placed at extreme left end.

Change in numbers: The numbers are changed as per ascending order of sum of their digits. i.e. the number whose sum of digits is lowest will be taken first for rearrangement. The numbers are placed at extreme right end.

Note- Change in only one word and one number takes place simultaneously at each step.

Reference:

Input: manage 46 time 23 work 13 create 78 explore 43 universe 84

Step I: work manage 46 time 28 create 78 explore 43 universe 84 13

Inference:

Here, trust is the first word as per reverse dictionary order and 10 is the number with lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Input: require 51decade 22 build 10 trust 32 once 84 shattered 45

Step I: trust require 51decade 22 build 32 once 84 shattered 45 10

Reference:

Step I: work manage 46 time 23 create 78 explore 43 universe 84 13

Step II: universe work manage 46 time create 78 explore 43 84 13 23

Inference:

Here, shattered is the second word as per reverse dictionary order and 22 is the number with second lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Step I: trust require 51decade 22 build 32 once 84 shattered 45 10

Step II: shattered trust require 51decade build 32 once 84 45 10 22

Reference:

Step II: universe work manage 46 time create 78 explore 43 84 13 23

Step III: time universe work manage 46 create 78 explore 84 13 23 43

Inference:

Here, require is the third word as per reverse dictionary order and 32 is the number with third lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Step II: shattered trust require 51decade build 32 once 84 45 10 22

Step III: require shattered trust 51decade build once 84 45 10 22 32

Reference:

Step III: time universe work manage 46 create 78 explore 84 13 23 43

Step IV: manage time universe work create 78 explore 84 13 23 43 46

Inference:

Here, once is the fourth word as per reverse dictionary order and 51 is the number with fourth lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Step III: require shattered trust 51decade build once 84 45 10 22 32

Step IV: once require shattered trust decade build 84 45 10 22 32 51

Reference:

Step IV: manage time universe work create 78 explore 84 13 23 43 46

Step V: explore manage time universe work create 78 13 23 43 46 84

Inference:

Here, decade is the fifth word as per reverse dictionary order and 45 is the number with fifth lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Step IV: once require shattered trust decade build 84 45 10 22 32 51

Step V: decade once require shattered trust build 84 10 22 32 51 45

Reference:

Step V: explore manage time universe work create 78 13 23 43 46 84

Step VI: create explore manage time universe work 13 23 43 46 84 78

Inference:

Here, build is the sixth word as per reverse dictionary order and 84 is the number with sixth lowest sum of digits. Thus these are arranged at extreme left and right ends respectively.

Step V: decade once require shattered trust build 84 10 22 32 51 45

Step VI: build decade once require shattered trust 10 22 32 51 45 84

Final Output:

Input: require 51decade 22 build 10 trust 32 once 84 shattered 45

Step I: trust require 51decade 22 build 32 once 84 shattered 45 10

Step II: shattered trust require 51decade build 32 once 84 45 10 22

Step III: require shattered trust 51decade build once 84 45 10 22 32

Step IV: once require shattered trust decade build 84 45 10 22 32 51

Step V: decade once require shattered trust build 84 10 22 32 51 45

Step VI: build decade once require shattered trust 10 22 32 51 45 84

1. Following the common explanation, we have
require is third to the left of 51 in step III.

Hence option C is correct.

2. Following the common explanation, we have

51 and 32 come between trust and once in step II , thus the required sum is 83.

Hence option D is correct.

3. Following the common explanation, we have

decade 45 represents the elements at extreme ends in step V.

Hence option B is correct.

4. Following the common explanation, we have

"once require shattered trust decade build 84 45 10 22 32 51" represents the step IV.

Step IV: once require shattered trust decade build 84 45 10 22 32 51

Hence option C is correct.

5. Following the common explanation, we have

The difference of and is -

9th element from the right end in step III - 51

8th element from left end in step VI - 22

Difference:

$$51 - 22 = 29$$

Hence, option B is the correct answer.



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