

# 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 32

Directions: A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in every step. The following is an illustration of input and rearrangement.

Input: 79 create history 88 imagined 94 every 63 leader 96

Step I: 8879 create history imagined 9463 leader 96 every
Step II: 887996 history imagined 9463 leader every create
Step III: 887996 history imagined 9463 every create leader
Step IV: 88799694 imagined 63 every create leader history
Step V: 8879969463 every create leader history imagined

Step V is the last step of the arrangement.

Following the same pattern solve the given input.
Input: never 42 leaved 39 important object 5346 anyplace 74

1. How many steps will be required to complete the given input?
A. Three
B. Seven
C. Six
D. Five
E. Four
2. Which of the following steps will be last but one of the given input?
A. 39744653 important 42 never leaved object anyplace
B. 3974465342 important never leaved object anyplace
C. 3974464253 never leaved object anyplace important
D. 3974465342 important never object leaved anyplace
E. None of these
3. Which of the following will be on the immediate right of 'Important' in step III?
A. Object
B. Never
C. 42
D. Anyplace
E. 53
4. How many element(s) will be there between '74' and 'leaved' in Step IV?
A. Six
B. Four
C. Four
D. Five
E. Three

## 5. What is the position of 'Object' in step V?

A. Third from right end
B. Second from left end
D. Fourth from right end
E. None of these
C. Seventh from left end

## Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :---: | :---: | :---: | :---: |
| D | B | E | D | A |

## COMMON EXPLANATION:

## Reference:

Input: 79 create history 88 imagined 94 every 63 leader 96
Step I: 8879 create history imagined 9463 leader 96 every
Step II: 887996 history imagined 9463 leader every create Step III: 887996 history imagined 9463 every create leader
Step IV: 88799694 imagined 63 every create leader history
Step V: 8879969463 every create leader history imagined
Step V is the last step of the arrangement.

## Inference:

Here in the above input the numbers and the words are arranged in the different manner.

## Arrangement of numbers:

Here the numbers are arranged as the number whose sum of the digits is highest is arranged on the extreme left in the Step I after that the number whose sum of the digits is second highest is arranged the right of the number arranged in step I.

| Number | Digits Sum |
| :---: | :---: |
| 88 | 16 |
| 79 | 16 |
| 96 | 15 |
| 94 | 13 |
| 63 | 9 |

As the digits sum of both ' 88 ' and ' 79 ' is same, then the highest number i.e. 88 will be arranged first.

| Number | Arrangement Step |
| :---: | :---: |
| 88 | Step I |
| 79 | Step II |
| 96 | Step III |
| 94 | Step IV |
| 63 | Step V |

As the arrangement of the numbers follows the left to right pattern therefore it might be possible that some numbers are arranged automatically.

## Arrangement of words:

Here the words are arranged as the word having highest number of letters is arranged on the extreme left in the Step I after that the word having second highest number of letters is arranged the right of the word arranged in step I.

If the sum of the digits of two numbers is same then number which highest will be arranged first.

| Word | Number of <br> Letters |
| :---: | :---: |
| every | 5 |
| create | 6 |
| leader | 6 |
| history | 7 |
| imagined | 8 |

As the number of letters in both 'create' and 'leader' are same, then the word which comes first according to dictionary i.e. 'create' will be arranged first.

| Word | Arrangement Step |
| :---: | :---: |
| every | Step I |
| create | Step II |
| leader | Step III |
| history | Step IV |
| imagined | Step V |

As the arrangement of the words follows the right to right pattern therefore the number of steps required to complete the arrangement will not be not be less than the number of words in the given input.

Now, the given input:

Input: 79 create history 88 imagined 94 every 63 leader 96

Numbers:

| Number | Digit Sum | Arrangement Step |
| :---: | :---: | :---: |
| 39 | 12 | Step I |
| 74 | 11 | Step II |
| 46 | 10 | Step III |
| 53 | 8 | Step IV |
| 42 | 6 | Step V |

Words:

| Word | Number of <br> Letters | Arrangement <br> Step |
| :---: | :---: | :---: |
| never | 5 | Step I |
| leaved | 6 | Step II |
| object | 6 | Step III |
| anyplace | 8 | Step IV |
| important | 9 | Step V |

As the number of letters in both 'leaved' and 'object' are same, then the word which comes first according to dictionary i.e. 'leaved' will be arranged first.

## Arrangement:

Input: never 42 leaved 39 important object 5346 anyplace 74
Step I: 3942 leaved important object 5346 anyplace 74 never
Step II: 397442 important object 5346 anyplace never leaved
Step III: 39744642 important 53 anyplace never leaved object
Step IV: 3974465342 important never leaved object anyplace
Step V: 3974465342 never leaved object anyplace important
Step V is the last step of the arrangement.

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## Answers :

1. Following the final solution we can say that five steps will be required to complete the given input.

Hence, the correct answer is option D.
2. Following the final solution we can say that '39 74465342 important never leaved object anyplace' will be the last but one.

Hence, the correct answer is option B.
3. Following the final solution we can say that ' 53 ' will be on the right of 'Important' in step III. Hence, the correct answer is option $\mathbf{E}$.
4. Following the final solution we can say that there are five elements between ' 74 ' and 'leaved' in Step IV.

Hence, the correct answer is option D.
5. Following the final solution we can say that position of 'Object' will be third from right end in step V. Hence, the correct answer is option $\mathbf{A}$.


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