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# Sequential Output Tracing Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

## Set 36

**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: variety 35 spices 21 for 79 good 54 taste 46

Step I: for variety 35 spices 21 79 good 54 taste 46

Step II: good for variety 35 spices 79 54 taste 46 21

Step III: taste good for variety 35 spices 54 46 21 79

Step IV: spices taste good for variety 54 46 21 79 35

Step V: variety spices taste good for 46 21 79 35 54

Step V is the last step.

Find the various steps and final output for the input given below.

**Input: strong 64 relation 25 depends 38 on 53 base 45**

## Questions :

**1. Which of the following represents the fifth element from left end in step IV and fourth element from right end in step II respectively?**

A. relation -38      B. 25 - 53      C. relation - base      D. relation - 53      E. None of these

**2. What is the difference of the odd numbers that come between 'strong' and 'base' in step I?**

A. Only one odd number comes in between      B. 14      C. 28  
D. No odd number comes in between      E. Can't be determined

3. With respect to the step V, Four of the following five are alike in a certain way and they form a group. Which of the following does not belong to that group?

- A. 38                      B. base                      C. depends                      D. 53                      E. 45

4. Which of the following elements is third to the left of fourth element from right end in step III?

- A. 53                      B. relation                      C. base                      D. depends                      E. None of these

5. What is the sum of the numbers that are towards the right of 'base' in step I?

- A. 109                      B. 102                      C. 91                      D. There is only one number  
E. None of these

**Correct Answers:**

1	2	3	4	5
D	C	E	B	A



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## Common Explanations:

**Change in word:** The words are rearranged as per ascending order of number of letters and placed at extreme left end.

**Change in number:** The numbers are rearranged as per ascending order of sum of their digits until a single digit is obtained and shifted to extreme right end.

Note- Change in word and number takes place simultaneously at each step. Only one word and one number is changed in a step.

### Reference:

Input: variety 35 spices 21 for 79 good 54 taste 46  
Step I: for variety 35 spices 21 79 good 54 taste 46

### Inference:

Input: strong 64 relation 25 depends 38 on 53 base 45  
Step I: on strong relation 25 depends 38 53 base 45 64

### Reference:

Step I: for variety 35 spices 21 79 good 54 taste 46  
Step II: good for variety 35 spices 79 54 taste 46 21

### Inference:

Step I: on strong relation 25 depends 38 53 base 45 64  
Step II: base on strong relation 25 depends 53 45 64 38

### Reference:

Step II: good for variety 35 spices 79 54 taste 46 21  
Step III: taste good for variety 35 spices 54 46 21 79

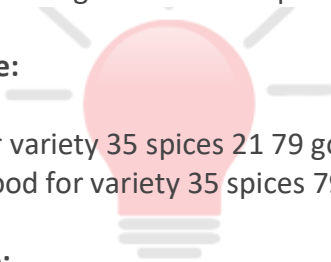
### Inference:

Step II: base on strong relation 25 depends 53 45 64 38  
Step III: strong base on relation depends 53 45 64 38 25

### Reference:

Step III: taste good for variety 35 spices 54 46 21 79  
Step IV: spices taste good for variety 54 46 21 79 35

### Inference:



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Step III: strong base on relation depends 53 45 64 38 25

Step IV: depends strong base on relation 45 64 38 25 53

**Reference:**

Step IV: spices taste good for variety 54 46 21 79 35

Step V: variety spices taste good for 46 21 79 35 54

**Inference:**

Step IV: depends strong base on relation 45 64 38 25 53

Step V: relation depends strong base on 64 38 25 53 45

**Final Output:**

Input: strong 64 relation 25 depends 38 on 53 base 45

Step I: on strong relation 25 depends 38 53 base 45 64

Step II: base on strong relation 25 depends 53 45 64 38

Step III: strong base on relation depends 53 45 64 38 25

Step IV: depends strong base on relation 45 64 38 25 53

Step V: relation depends strong base on 64 38 25 53 45



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1. relation - 53 represents the fifth element from left end in step IV and fourth element from right end in step II respectively.

Hence option D is correct.

2. The odd numbers that come between 'strong' and 'base' in step I are 25 and 53, required difference is 28.

Hence option C is correct.

3. 45 is placed at an extreme end, thus is the odd one out, rest elements are not placed at any extreme end.

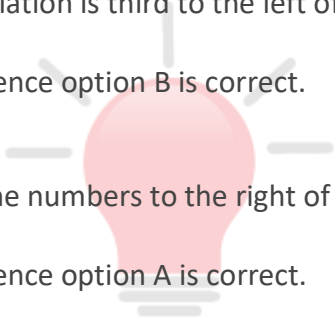
Hence option E is correct.

4. relation is third to the left of fourth element from right end in step III.

Hence option B is correct.

5. The numbers to the right of 'base' in step I are 45 and 64, required sum is 109.

Hence option A is correct.



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