

## INPUT OUTPUT Question for Bank PO Prelims



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## INPUT OUTPUT Question for Bank PO Prelims

**Directions (1-5):** Study the following information carefully and answer the given questions:

**Input :** tree 47 10 rose at 98 76 32 wise jar high 28 56 born

**Step I :** 10 tree 47 rose 98 76 32 wise jar high 28 56 born at

**Step II :** 28 10 tree 47 rose 98 76 32 wise jar high 56 at born

**Step III:** 32 28 10 tree 47 rose 98 76 wise jar 56 at born high

**Step IV:** 47 32 28 10 tree rose 98 76 wise 56 at born high jar

**Step V :** 56 47 32 28 10 tree 98 76 wise at born high jar rose

**Step VI:** 76 56 47 32 28 10 98 wise at born high jar rose tree

**StepVII:** 98 76 56 47 32 28 10 at born high jar rose tree wise

And Step VII is the last step of the above input

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

**Input: 84 why sit 14 32 not best jack feet 51 27 van 65 90 (All the numbers are two-digit numbers.)**

**1. Which step number is the following output?**

**32 27 14 84 why sit not 51 van 65 90 beast feet jack**

- a) Step V
- b) Step VI
- c) Step IV
- d) Step III
- e) There is no such step.

**2. Which word/number would be at 5th position from the right in Step V?**

- a) 14
- b) 90
- c) feet
- d) beast
- e) why

**3. How many elements (words or numbers) are there between 'feet' and '32' as they appear in the last step of the output?**

- a) One
- b) Three
- c) Four
- d) Five
- e) Seven

**4. Which of the following represents the position of 'why' in the fourth step?**

- a) Eighth from the left
- b) Fifth from the right
- c) Sixth from the left
- d) Fifth from the left



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e) Seventh from the left

**5. How many steps are required to complete the following input in to output?**

- a) 3
- b) 4
- c) 5
- d) 6
- e) 7

**Directions (6-10): Study the following information carefully and answer the given questions:**

Input: nano 74 nest 26 neat 35 normal 43 narrow 67

Step1: 74 nest neat 35 normal 43 narrow 67 nano 262

Step2: 74 nest neat normal 43 67 nano 262 narrow 335

Step3: 74 nest normal 67 nano 262 narrow 335 neat 343

Step4: 74 normal nano 262 narrow 335 neat 343 nest 367

Step5: nano 262 narrow 335 neat 343 nest 367 normal 742

Step 5 is the final output.

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

**Input: tea 53 table 46 tact 83 this 69 test 11.**

**6. Which of the following steps, 'table' is placed at third from the left end?**

- a) Step 1
- b) Input
- c) Step 4
- d) Either A or B
- e) None of these

**7) Which of the following is the final output?**

- a) table 311 tact 462 test 353 tea 369 this 383
- b) table 311 tact 462 tea 353 test 369 this 383
- c) this 383 table 311 tact 462 tea 353 test 369
- d) tact 462 tea 353 test 369 this 383 table 311
- e) None of these

**8. What is the difference between the highest and the lowest numbers of step 3?**

- a) 268





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- b) 316
- c) 393
- d) 413
- e) None of these

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

- a) 83
- b) this
- c) 69
- d) test
- e) None of these

**10. In which of the following steps "83 this table" is seen in the same sequence?**

- a) Step 4
- b) Step 5
- c) Step 3
- d) Both Step 3 and step 4
- e) None of these

**3) Directions (11-15) : Study the following information carefully and answer the question**

Input: 780 vanish 651 love 488 dear 350 juck 581 token

Step 1: 350 780 vanish 651 love 488 juck 581 token dear

Step 2: 651 350 780 vanish love 488 581 token dear juck

Step 3: 581 651 350 780 vanish 488 token dear juck love

Step 4: 780 581 651 350 vanish 488 dear juck love token

Step 5: 488 780 581 651 350 dear juck love token vanish

Step 5 is the final step

As per the pattern followed in the above steps, find out for given input:

**Input: 585 cat 651 dog 483 goose 230 mussel 631 rat**

**11. In which step we will get the following output?**

**651 631 230 585 483 mussel rat cat dog goose**

- a) Step 5
- b) Step 4
- c) Step 3



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- d) There is no such step
- e) None of these

**12. If in step 4 '651' is related to '230' & '585' is related to 'cat', then following the same pattern '631' is related to \_\_\_\_\_**

- a) rat
- b) 230
- c) 585
- d) cat
- e) Goose

**13 .Which of the following statements is correct regarding position of 'rat' in the 4th step?**

- a) Third to left of 651
- b) Second to right of goose
- c) Second to right of 631
- d) Second to right of 230
- e) Second to left of goose

**14.In step 5 which of following word or number is 3<sup>rd</sup> to the right of the word/number which is 2<sup>nd</sup> to the right of '651'?**

- a) mussel
- b) goose
- c) cat
- d) 585
- e) 230

**15. How many steps are required to complete the given input?**

- a) 2
- b) 4
- c) 5
- d) 6
- e) 7

**Directions(16-20): Study the following information carefully to answer these questions:**

**(All the numbers are two-digit numbers.)**

**Input: garden 89 run creative 67 27 mouse 95 79 puzzles 51 pure**

Step I: creative garden 89 run 67 mouse 95 79 puzzles 51 pure 72

Step II: puzzles creative garden 89 run 67 mouse 95 79 pure 72 15

Step III: garden puzzles creative 89 run mouse 95 79 pure 72 15 76

Step IV: mouse garden puzzles creative 89 run 95 pure 72 15 76 97

Step V: pure mouse garden puzzles creative Run 95 72 15 76 97 98

Step VI: run pure mouse garden puzzles creative 72 15 76 97 98 59

**Step VI is the last step of the above input, as**



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**Input:** watch 76 mock 24 replace 81 34 go gun 57 simple 62

**16. If in the last step, '2' is added to each of the even numbers and '1' is subtracted from each of the odd numbers, then how many multiples of '4' will be formed?**

- A. 4
- B. 3
- C. 1
- D. 5

**17. In how many steps '76 mock 81 go' will be the same in this order?**

- A. 2
- B. 3
- C. 4
- D. 5
- E. Both A & B

**18. Which step number would be the following "mock watch simple replace 76 81 go gun 42 43 75 26"?**

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

**19. How many elements are there between 'simple' and '42' in step V?**

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

**20. Which element is fifth to the left of the element which is ninth from the left end in the last step?**

- A. simple
- B. watch
- C. mock
- D. gun
- E. None of these

**Direction( 21-25 ) Study the following information carefully and answer the questions given below.**

**Input:** 39 55 13 20 37 41 68 53

Step I: 13 39 55 37 41 68 53 20

Step II: 13 37 55 41 68 53 20 39

Step III: 13 37 41 68 53 20 39 55



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Step IV: 13 37 41 53 20 39 55 68

Step V: 15 34 43 50 22 36 57 65

Step VI: 15 34 43 50 36 57 65 22

Step VII: 15 43 50 36 57 65 22 34

Step VIII: 15 43 57 50 65 22 34 36

Step IX: 15 43 57 65 22 34 36 50

And Step IX is the last step of the rearrangement  
(15 is not a prime number)

**Input: 25 58 47 33 23 73 64 61**

**21. How many steps are needed to complete this arrangement?**

- a) X
- b) XII
- c) VI
- d) VIII
- e) IX

**22. Which of the following is fourth from the left end of Step VI in the above arrangement?**

- a) 61
- b) 80
- c) 60
- d) 70
- e) None of these

**23. Which of the following represents the sum of the first and the last elements in the second last step?**

- a) 50
- b) 85
- c) 100
- d) 95
- e) 115

**24. Which of the following is step V of the given input?**

- a) 25 27 61 63 70 30 44 62
- b) 25 44 63 70 27 30 62 61
- c) 25 44 63 70 27 30 60 61
- d) 25 44 63 70 27 60 61 30
- e) None of these

**25. Which elements are there between 6th from the left and 6th from the right in step IV?**

- a) 63, 70
- b) 44, 59
- c) 73, 25
- d) 21, 62
- e) 64, 73



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**(Directions 26 – 30): Study the following information to answer the given questions.**

Input: 13 19 06 16 14 18 11 15

Step I: 14 15 12 15

Step II: 14 45 36

Step III: 9 4

Step IV: 5

Step 4 is the last step of the rearrangement

**Input: 07 24 10 19 15 12 04 15**

**26.What is difference between the sum of numbers of step 1 and the product of numbers of step 3?**

- a) Multiple of 5
- b) Multiple of only 3
- c) Multiple of only 4
- d) Multiple of both 3 and 4
- e) Multiple of 9

**27.Which number will appear in step four of given input?**

- a) 6
- b) 4
- c) 3
- d) 5
- e) 8

**28.What is the sum of numbers present in step 3?**

- a) 16
- b) 18
- c) 20
- d) 15
- e) None of these

**29.Which number is repeated twice in step 1?**

- a) 11
- b) 14
- c) 17
- d) 15
- e) 18

**30.Which of the following is smallest number in step 2?**

- a) 33
- b) 42
- c) 55
- d) 66
- e) 70





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**Directions (31-35):** Study the following information carefully and answer the given questions:

**Input:** cloud fall 14 yoak 28 41 loan 50 70 89 due salt

Step I: yoak cloud fall 14 28 41 loan 50 70 89 due salt

Step II: yoak cloud fall 28 41 loan 50 70 89 due salt 14

Step III: yoak salt cloud fall 28 41 loan 50 70 89 due 14

Step IV: yoak salt cloud fall 41 loan 50 70 89 due 28 14

Step V: yoak salt loan cloud fall 41 50 70 89 due 28 14

Step VI: yoak salt loan cloud fall 50 70 89 due 41 28 14

Step VII: yoak salt loan fall cloud 50 70 89 due 41 28 14

Step VIII: yoak salt loan fall cloud 70 89 due 50 41 28 14

Step IX: yoak salt loan fall due cloud 70 89 50 41 28 14

Step X: yoak salt loan fall due cloud 89 70 50 41 28 14

Step X is the last step for the given input.

**Input:** 44 22 glad had 84 38 jack bone 55 93 made candy

**31. Which of the following is step VI?**

- a) made jack had glad 84 bone 93 55 candy 44 38 22
- b) made jack glad had 84 bone 55 93 candy 38 44 22
- c) made jack had glad 84 bone 55 93 candy 44 38 22
- d) made jack had glad 84 bone 55 93 44 candy 38 22
- e) made jack glad had 84 bone 55 93 44 candy 38 22

**32. How many elements are there between 'glad' and '55' in step III?**

- a) Six
- b) Four
- c) Three
- d) Five
- e) Seven

**33. Which word/number is fifth from the right end in step IV?**

- a) 55
- b) Bone
- c) 93
- d) Candy
- e) 84

**34. Which of the following is the last step?**

- a) made jack had glad candy bone 84 93 55 44 38 22
- b) made jack had glad bone candy 93 84 55 44 38 22
- c) made jack had glad bone 93 candy 84 55 44 38 22
- d) made jack had glad candy 84 bone 93 55 44 38 22
- e) None of these



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**35. Which step number is the following output 'made jack had glad 84 bone 93 candy 55 44 38 22'?**

- a) There will be no such step
- b) XII
- c) IV
- d) V
- e) VII

**Directions (36 – 40): Study the following information to answer the given questions**

Input: 234 183 243 322 262 183 482 333

Step I: 115 58 78 159 129 58 239 108

Step II: 173 20 237 30 187 181 347

Step III: 11 02 12 03 16 10 14

Step IV: 22 6 36 6 48 30 42

step 4 is the last step

**Input: 105 164 333 584 222 489 176 267**

**36. Which of the following element is second to the right of the element which is sixth from the right end in step III?**

- a) 30
- b) 10
- c) None of these
- d) 33
- e) 28

**37. Which of the following is the Middle element in the last step?**

- a) 30
- b) 66
- c) 36
- d) 34
- e) None of these

**38. What will be the resultant if third element from the left end in step II is multiplied by Second element from the right end in step III?**

- a) 4278
- b) 4378
- c) 4648
- d) None of these
- e) 3378

**39. If all the numbers in the step IV are arranged in ascending order from left to right, then how many numbers are not changed from its previous position?**

- a) One
- b) Two



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- c) Three
- d) None
- e) More than Three

**40.What is the sum of all the numbers present in step III?**

- a) 80
- b) 90
- c) 92
- d) 82
- e) 70

**Directions(41-45): Study the following information carefully and answer the given questions:**

**Input:** 79 castle feature 88 military 94 about 63 doctor 96

**Step I:** 88 79 castle feature military 94 63 doctor 96 about

**Step II:** 88 79 feature military 94 63 doctor 96 about castle

**Step III:** 88 79 96 feature military 94 63 about castle doctor

**Step IV:** 88 79 96 94 military 63 about castle doctor feature

**Step V:** 88 79 96 94 63 about castle doctor feature military

**Note: words do not arranged in the alphabetical order.**

Step V is the last step of the arrangement.

**Following the same pattern solve the given input.**

**Input:** novel 42 leaven 39 importance object 53 46 anyplace 74

**41.How many steps will be required to complete the given input?**

- a) Three
- b) Seven
- c) Six
- d) Five
- e) Four

**42.Which of the following steps will be last but one of the given input?**

- a)49 74 46 53 importance 42 novel leavel object anyplace
- b)49 74 46 53 42 importance novel leavel object anyplace
- c)49 74 46 42 53 novel leavel object anyplace importance
- d)49 74 46 53 42 importance novel object leavel anyplace
- e) None of these

**43.Which of the following will be on the immediate right of 'Importance' in step III?**

- a) Object
- b) Novel
- c) 42
- d) Anyplace
- e) 53



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**44. How many element(s) will be there between '74' and 'leavel' in Step IV?**

- a) Six
- b) None
- c) Four
- d) Five
- e) Three

**45. What is the position of 'Object' in step V?**

- a) Third from right end
- b) Second from left end
- c) Seventh from left end
- d) Fourth from right end
- e) None of these

**Directions (46-50): Study the following information carefully and answer the given questions:**

Input: 24 black 43 blue 38 yellow green85 pink 67

Step I : yellow black 43 blue 38 green85 pink 67 42

Step II : pink yellow black 43 bluegreen 85 67 42 83

Step III : green pink yellow black blue85 67 42 83 34

Step IV : blue green pink yellow black85 42 83 34 76

Step V : black blue green pink yellow 4283 34 76 58

Step VI : black blue green pink yellow34 42 58 76 83

And step VI is the last step of the arrangement.

**Input: 97 horse balloon 45 hyena 72leopard 12 33 sheep**

**46. How many numbers are greater than the average of all numbers in Step IV?**

- a). Two
- b). Three
- c) Four
- d). Five
- e) One

**47. How many elements are there between third element from right end and second element from the left end in Step V?**

- a) Two
- b) Six
- c) Five
- d) Three
- e) Four

**48. Which of the following will be the third step?**

- a) hyena leopard sheep 79 horseballoon 72 21 33 54
- b) hyena leopard sheep 97 horseballoon 27 21 33 45





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- c) hyena leopard sheep 97 horseballoon 72 21 33 54  
d) hyena leopard sheep 97 horseballoon 72 12 33 45  
e) hyena leopard sheep 79 horseballoon 27 21 33 54

**49. Which element lies third to the right of the one which is fifth from the left in Step II?**

- a) 33  
b) 72  
c) Hyena  
d) Leopard  
e) Horse

**50. What is the sum of the all numbers in Step III?**

- a) 232  
b) 270  
c) 182  
d) 168  
e) 277

### SOLUTIONS WITH DETAILED EXPLANATION

#### ANSWERS

1. d  
2. d  
3. b  
4. c  
5. e

#### SOLUTIONS 1-5

**Change in Number:** Numbers are being arranged from left side with the smallest number coming first and move subsequently so that in the last step numbers are arranged in descending order.

**Change in Word:** The words are arranged from right side as they appear in English alphabetical order.

**Input:** 84 why sit 14 32 not beast jack feet 51 27 van 65 90

**Step I:** 14 84 why sit 32 not jack feet 51 27 van 65 90 beast

**Step II:** 27 14 84 why sit 32 not jack 51 van 65 90 beast feet

**Step III:** 32 27 14 84 why sit not 51 van 65 90 beast feet jack

**Step IV:** 51 32 27 14 84 why sit van 65 90 beast feet jack not

**Step V:** 65 51 32 27 14 84 why van 90 beast feet jack not sit

**Step VI:** 84 65 51 32 27 14 why 90 beast feet jack not sit van

**Step VII:** 90 84 65 51 32 27 14 beast feet jack not sit van why



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### ANSWERS

- 6. c
- 7. b
- 8. c
- 9. c
- 10. a

### SOLUTIONS 6-10

**Change in Word:** Change in words takes place as per the dictionary order and placed before the number.

**Change in Number:** Change in numbers takes place as per the ascending order. Thereafter numbers are changed to a new number which is obtained by application of the following rules and then shifted to the extreme right end.

**Rule I:** If the number is even, then place '2' at the end of the number.

**Rule II:** If the number is odd, then place '3' at the beginning of the number.

**Note:** Changes in word and number take place simultaneously in each step.

**Solution to the given input:**

**Input:** tea 53 table 46 tact 83 this 69 test 11

**Step1:** tea 53 46 tact 83 this 69 test table 311

**Step2:** tea 53 83 this 69 test table 311 tact 462

**Step3:** 83 this 69 test table 311 tact 462 tea 353

**Step4:** 83 this table 311 tact 462 tea 353 test 369

**Step5:** table 311 tact 462 tea 353 test 369 this 383

### ANSWERS

- 11. c
- 12. c
- 13. d
- 14. b
- 15. c

Both word & number are rearranged simultaneously.



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**Change in Number:** the sum of digits of number is taken. Number whose sum of digits is lowest is taken and placed at first.

**Change in Word:** The words are arranged in descending order from right to left from the right end. In the first step, the words are arranged as ascending order according to the first letter of the word and so on.

**NOTE:** Both word & number are rearranged simultaneously

**Input: 585 cat 651 dog 483 goose 230 mussel 631 rat**

Step 1: 230 585 651 dog 483 goose mussel 631 rat cat

Step 2: 631 230 585 651 483 goose mussel rat cat dog

Step 3: 651 631 230 585 483 mussel rat cat dog goose

Step 4: 483 651 631 230 585 rat cat dog goose mussel

Step 5: 585 483 651 631 230 cat dog goose mussel rat

### ANSWERS

16. b

17. e

18. c

19. b

20. b

### SOLUTION 16-20

Rule 1 : number and word is being rearranged in each step. In step I, the word with the largest number of alphabets is moved to the extreme left and smallest number (with the units and tens placed digits interchanged) is moved to the extreme right.

Rule 2 : the word with the second largest number of alphabets is moved to the extreme left and second smallest number (with the units and tens placed digits interchanged) is moved to the extreme right.

Input: watch 76 mock 24 replace 81 34 go gun 57 simple 62

Step I: replace watch 76 mock 81 34 go gun 57 simple 62 42

Step II: simple replace watch 76 mock 81 go gun 57 62 42 43

Step III: watch simple replace 76 mock 81 go gun 62 42 43 75

Step IV: mock watch simple replace 76 81 go gun 42 43 75 26

Step V: gun mock watch simple replace 81 go 42 43 75 26 67

Step VI: go gun mock watch simple replace 42 43 75 26 67 18

16. The numbers will be- 44, 42, 74, 28, 66, 20

3 of them are multiples of 4.



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### ANSWERS

- 21.e  
22.d  
23.b  
24.c  
25.c

### SOLUTION(21-25)

Step I – Step IV: Prime numbers are arranged in ascending order from the left end and other numbers are arranged from the right end

Step V: +2, -3, +2, -3....

Step VI-Step IX: Odd numbers are arranged in ascending order from the left end and even numbers are arranged from the right end.

Input: 25 58 47 33 23 73 64 61

Step I: 23 58 47 33 73 64 61 25

Step II: 23 47 58 73 64 61 25 33

Step III: 23 47 61 73 64 25 33 58

Step IV: 23 47 61 73 25 33 58 64

Step V: 25 44 63 70 27 30 60 61

Step VI: 25 44 63 70 27 60 61 30

Step VII: 25 27 63 70 60 61 30 44

Step VIII: 25 27 61 63 70 30 44 60

Step IX: 25 27 61 63 30 44 60 70

### ANSWERS

- 26.d  
27.b  
28.b  
29.a  
30.a

### SOLUTIONS 26-30

**Input:** 15 11 18 14 16 06 19 13

Step1: The average of first and last, then second and second last number and so on taken:

$(15 + 13)/2 = 14$ ,  $(11 + 19)/2 = 15$ ,  $(18 + 06)/2 = 12$ ,  $(14 + 16)/2 = 15$ .

Step2: First number is multiplied with difference with its next number:

$14 \times (15 - 14) = 14$ ,  $15 \times (15 - 12) = 45$ ,  $12 \times (15 - 12) = 36$ .

Step3: Second number is divided by sum of digit of its previous number:

$45/(1 + 4) = 45/5 = 9$ ,  $36/(4 + 5) = 36/9 = 4$ .

Step4: Difference between numbers:

$9 - 4 = 5$ .

Similar pattern is followed for the given input

Now, for Input:

Input: 07 24 10 19 15 12 04 15

Step I: 11 14 11 17





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Step II: 33 42 66  
Step III: 7 11  
Step IV: 4

### ANSWERS

31.c

32.b

33.a

34.e

35.e

**Solution:** 30-35

**Change in Word :** Words are arranged in reverse alphabetical order

**Change in Number:** Numbers are arranged in descending order.

**Note:** In each step, one operation takes place.

Input: 44 22 glad had 84 38 jack bone 55 93 made candy

Step I: made 44 22 glad had 84 38 jack bone 55 93 candy

Step II: made 44 glad had 84 38 jack bone 55 93 candy 22

Step III: made jack 44 glad had 84 38 bone 55 93 candy 22

Step IV: made jack 44 glad had 84 bone 55 93 candy 38 22

Step V: made jack had 44 glad 84 bone 55 93 candy 38 22

Step VI: made jack had glad 84 bone 55 93 candy 44 38 22

Step VII: made jack had glad 84 bone 93 candy 55 44 38 22

Step VIII: made jack had glad candy 84 bone 93 55 44 38 22

Step IX: made jack had glad candy bone 93 84 55 44 38 22

### ANSWERS

36. c

37. e

38. c

39. b

40. e

### SOLUTION 36-40

**Input: 105 164 333 584 222 489 176 267**

Step I: Even number is divided by 2 and then subtract by 2, Odd number is divided by 3 and then subtract by 3

Step I: 32 80 108 290 109 160 86 86

Step II: +, -, +, -, +, -, +,

Step II: 112 28 398 181 269 74 172

Step III: Sum of all the digits of each number

Step III: 4 10 20 10 17 11 10

Step IV: Odd Number is multiplied by 2, Even number is multiplied by 3.

Step IV: 12 30 60 30 34 22 30

**Input: 105 164 333 584 222 489 176 267**





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### SOLUTION 46-50

**Change in word** : the words are arranged in alphabetical order such that the words are first arrange in decreasing order and the next word comes before the last arranged word in the next step.

**Change in Number**: The number of the inputs are arranged in increasing order and placed in the last place of the input as well as the positions of the numbers will also interchange and the next number will come after the last arrange number in the next step. Finally all the arranged numbers again placed in increasing order.

**Input: 97 horse balloon 45 hyena72 leopard 12 33 sheep**

Step I: sheep 97 horse balloon 45 hyena72 leopard 33 21

Step II: leopard sheep 97 horse balloon45 hyena 72 21 33

Step III: hyena leopard sheep 97 horseballoon72 21 33 54

Step IV: horse hyena leopard sheep 97balloon 21 33 54 27

Step V:balloon horse hyena leopard sheep21 33 54 27 79

Step VI: balloon horse hyena leopard sheep21 27 33 54 79

Then Step VI is the final step of the arrangement

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