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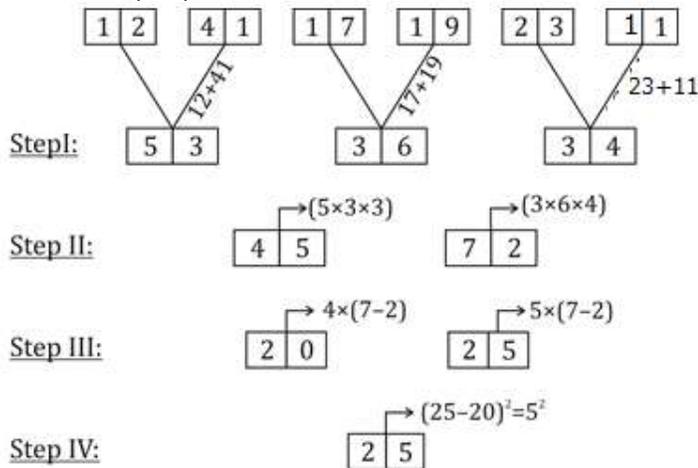
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Solutions

Solution (1-5):



S1. Ans. (a)

Sol. Addition of number in Step I is= $34 + 36 + 53 = 123$

S2. Ans. (b)

Sol. Multiplication of number in Step III- $25 \times 20 = 500$

S3. Ans. (d)

Sol. Difference between the number obtained in Step II- $72 - 45 = 27$

S4. Ans. (d)

Sol. Number obtained in Step IV- is 25

Square of 25 is 625.

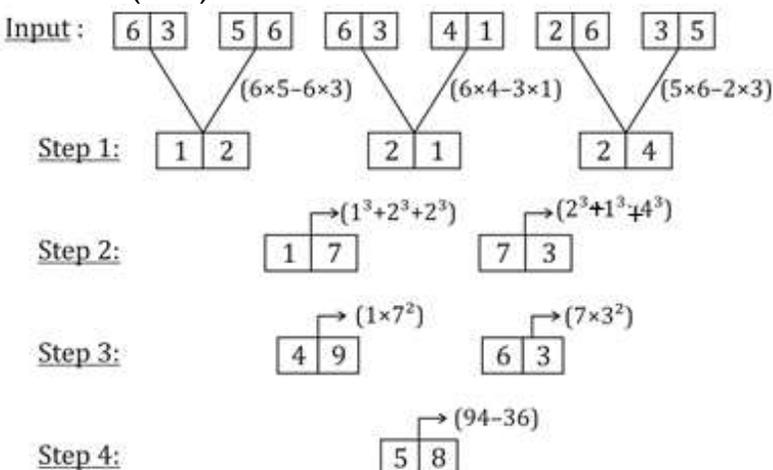
S5. Ans. (d)

Sol. Numbers obtained in Step II- 45, 72

If digits are exchanged then new numbers are 54, 27

Multiplication of new number= $54 \times 27 = 1458$

Solution (6-10):




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Step-II (First block)- Addition of the Cube of first element of each block of step I.

Step-II (Second block)- Addition of cube of second element of each block of step I.

Step-III (First block) - First element of First block multiply with Square of First element of Second block of Step II.

Step-III (Second block)- Second element of first block multiply with square of second element of second block of Step II.

Step-IV- First we interchange the digit within first and second block respectively of Step III. Then we have to calculate the difference between these number thus formed by interchanging the digit.

For ex.- The number of third step are- 49 and 63

After interchanging the digit, new number is- 94 and 36

The difference is= $94-36=58$

S6. Ans. (a)

Sol. $12 + 21 + 24 = 57$

S7. Ans. (a)

Sol. $63 - 49 = 14$

S8. Ans. (e)

Sol. $17 \times 73 = 1241$

S9. Ans. (e)

Sol. $8 \times 5 = 40$

S10. Ans. (c)

Sol. 58

Solution (11-15):

Students let us understand the Logic behind this Question and let's understand how to solve it. When we see the each step, then we can find that there is both number and words are arranged in each step.

(1) For words arrangement- Words are arranged according to ascending order as in English dictionary. In first step the words which come first according to English dictionary arranged first to extreme left. And in second step next word is to be arranged in extreme right.

And this process is continued in further step.

(2) For number arrangement- There are three odd numbers and three even numbers. In first step lowest odd number arranged in extreme right. And in second step lowest even number is to be arranged in extreme left. And this process is continued in further step. (Each odd number is added by one(+1) while they are arranged and one is subtracted by each even number(-1) while they are arranged).



Input: there 8 will 7 be 24 no 29 significant 16 change 19
Step I: be there 8 will 24 no 29 significant 16 change 19 8
Step II: 7 be there will 24 no 29 significant 16 19 8 change
Step III: no 7 be there will 24 29 significant 16 8 change 20
Step IV: 15 no 7 be there will 24 29 8 change 20 significant
Step V: there 15 no 7 be will 24 8 change 20 significant 30
Step VI: 23 there 15 no 7 be 8 change 20 significant 30 will

- S11. Ans. (c)
 S12. Ans. (e)
 S13. Ans.(c)
 S14. Ans.(e)
 S15. Ans. (a)

Solution (16-20):

Students let us understand the Logic behind this Question and let's understand how to solve it. When we see the each step, then we can find that there is number and words are arranged in alternately in each step.

1) For number arrangement- Numbers are arranged in descending order. In first step largest number is arranged in extreme left side and second largest number is arranged in extreme right side. And then in step 3rd third largest number is arranged in extreme left side and 4th largest number is arranged in extreme right side. And this process is continued in 5th step. All the number which is arranged in descending order contains number (1 to 6) at unit place of each number while they are arranged accordingly.

2) For words arrangement- Words are arranged in reverse alphabetical order. In second step the word which comes last according to English dictionary arranged in extreme left end and the word which come second last according to English dictionary arranged extreme right end. And this process is continued in further step 4th and step 6th.

Input: this 15 is 72 not 29 an 56 end 49 but 33
Step I: 721 this 15 is not 29 an end 49 but 33 562
Step II: this 721 15 is 29 an end 49 but 33 562 not
Step III: 493 this 721 15 is 29 an end but 562 not 334
Step IV: is 493 this 721 15 29 an but 562 not 334 end
Step V: 295 is 493 this 721 an but 562 not 334 end 156
Step VI: but 295 is 493 this 721 562 not 334 end 156 an

- S16. Ans.(d)
 S17. Ans.(a)
 S18. Ans.(c)
 S19. Ans.(a)
 S20. Ans.(a)

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- 10 PRELIMS MOCKS (Bilingual)
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Solution (21-25):

Logic: In step 1 two words picked and arranged in increasing alphabetical order, placed it at the left corner and in step 2, two numbers picked and arranged it in descending order next to words and so on.

STEP 1: Mild Neuro Orio 11 25 Pint 47 81 Pick 49 Vintage 16

STEP 2: Mild Neuro 81 49 Orio 11 25 Pint 47 Pick Vintage 16

STEP 3: Mild Neuro 81 49 Orio Pick 11 25 Pint 47 Vintage 16

STEP 4: Mild Neuro 81 49 Orio Pick 47 25 11 Pint Vintage 16

STEP 5: Mild Neuro 81 49 Orio Pick 47 25 Pint Vintage 11 16

STEP 6: Mild Neuro 81 49 Orio Pick 47 25 Pint Vintage 16 11

S21. Ans.(d)

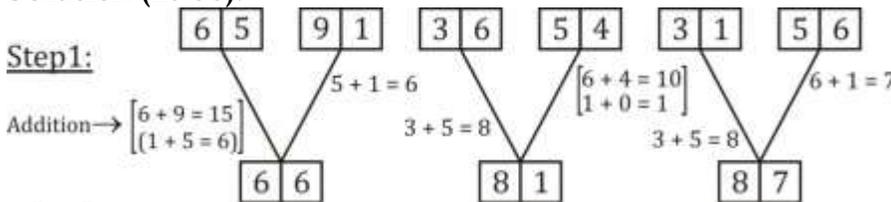
S22. Ans.(b)

S23. Ans.(a)

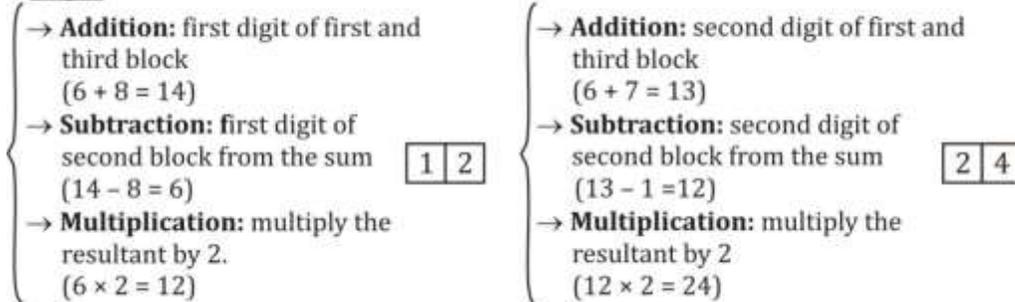
S24. Ans.(d)

S25. Ans.(d)

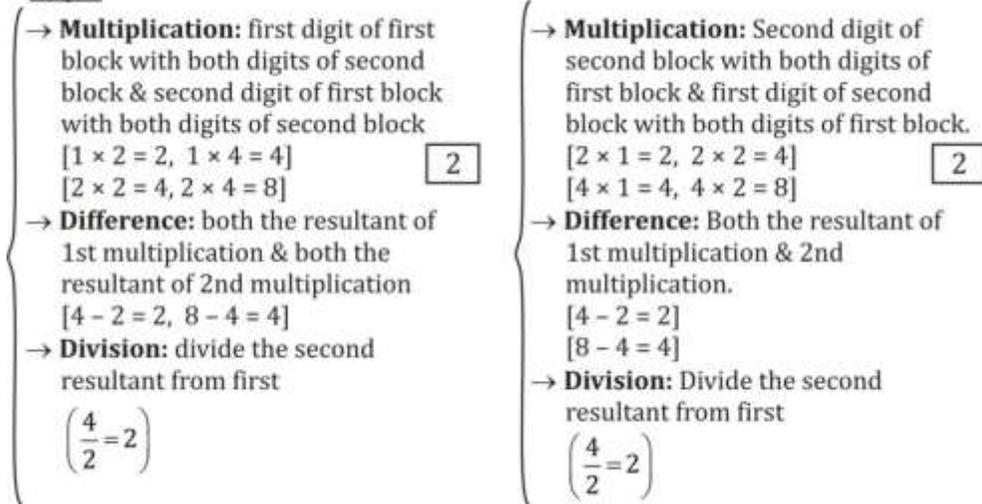
Solution (26-30):



Step2:



Step3:





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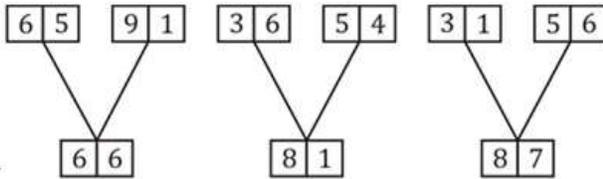
Bilingual

Step4:

→ **Division:** divide the digit of both the blocks.

1

So the final solution is-



Step1

Step 2

1 2

2 4

Step 3

2

2

Step 4

1

S26. Ans.(b)

S27. Ans.(c)

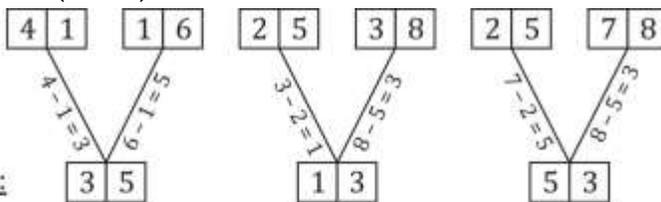
S28. Ans.(a)

S29. Ans.(a)

S30. Ans.(d)



Solution (31-35):



Step I:

Step II:

3 5 $\rightarrow (3^2+1^2+5^2) = 35$

4 3 $\rightarrow (5^2+3^2+3^2) = 43$

Step III:

1 2 $\rightarrow (3 \times 4) = 12$

1 5 $\rightarrow (5 \times 3) = 15$

Step IV:

1 8 $\rightarrow [1 \times (1+5) + 2(1+5)] = 1 \times 6 + 2 \times 6 = 18$

S31. Ans. (a)

Sol. Addition of number in Step I is= $35+13+53=101$

S32. Ans. (a)

Sol. Multiplication of number in Step III- $12*15=180$

S33. Ans. (d)

Sol. Difference between the number obtained in Step II- $43-35=8$

S34. Ans. (a)

Sol. Number obtained in Step IV- is 18

Square of 18 is 324.

S35. Ans. (d)

Sol. Numbers obtained in Step III- 12, 15

If digits are exchanged then new numbers are 21, 51

Multiplication of new number= $21*51=1071$

Solution (36-40):

Students let us understand the Logic behind this Question and let's understand how to solve it. When we see the each step, then we can find that there is both number and words are arranged in each step.

1) For words arrangement- Words are arranged according to ascending order given in English dictionary. In first step the words which comes first according to English dictionary arranged first to extreme right. And in second step next word are arranged to extreme left.

And this process is continued in further step.

2) For number arrangement- Number are arranged according to ascending order. In first step lowest number arranged in extreme left. And in second step next number is arranged in extreme right. And this process is continued in further step(Each odd number is added by two(+2) while they are arranged and two is subtracted by each even number(-2) while they are arranged).

Input: 48 sweet 82 door 35 read 57 a unit 9 86 end

Step I: 11 48 sweet 82 door 35 read 57 unit 86 end a

Step II: door 11 48 sweet 82 read 57 unit 86 end a 37

Step III: 46 door 11 sweet 82 read 57 unit 86 a 37 end

Step IV: read 46 door 11 sweet 82 unit 86 a 37 end 59

Step V: 80 read 46 door 11 unit 86 a 37 end 59 sweet

Step VI: unit 80 read 46 door 11 a 37 end 59 sweet 84

S36. Ans. (d)

S37. Ans. (a)

S38. Ans.(c)

S39. Ans.(d)

S40. Ans. (a)

Solution (41-45):

Students let us understand the Logic behind this Question and let's understand how to solve it.

For words → Word are arranged according to last letter of each word. So, we have to see the last letter of each word. In the given input series last letter of given words are- R,S,N,O and T. And then each last letter is arranged in ascending order(according to English dictionary) from right to left. In given input series N is least among all last letters so word "been" is arranged first.

For numbers→ for the number arrangement we have to add the digits of given number. And then each sum is arranged in ascending order from left to right.

Input: our 18 has 71 been 51 no 41 interest 25

Step I: 41 our 18 has 71 51 no interest 25 been

Step II: 51 41 our 18 has 71 interest 25 been no

Step III: 25 51 41 18 has 71 interest been no our

Step IV: 71 25 51 41 18 interest been no our has

Step V: 18 71 25 51 41 been no our has interest

S41. Ans.(a)

S42. Ans.(a)

S43. Ans.(b)

S44. Ans.(b)

S45. Ans.(a)

Solution(46-50):

Students let us understand the Logic behind this Question and let's understand how to solve it. When we see the each step, then we can find that both number and words are arranged in each step.

a) For words arrangement- Words are arranged according to last letter of each word. We have to see the last letter of each word. And all words are arranged in descending order from left to right according to their last letter according to alphabetical order.

b) For numbers arrangement- We have to first multiply the both digits of each given number. And then each new number which is obtained from the multiplication of given input number are arranged in descending order.

Input: has 83 been 56 expelled 44 from 39 the 81 party 92

Step I: party 56 has 83 been expelled 44 from 39 the 81 92

Step II: has 39 party 56 83 been expelled 44 from the 81 92

Step III: been 83 has 39 party 56 expelled 44 from the 81 92

Step IV: from 92 been 83 has 39 party 56 expelled 44 the 81

Step V: the 44 from 92 been 83 has 39 party 56 expelled 81

Step VI: expelled 81 the 44 from 92 been 83 has 39 party 56

S46. Ans.(e)

S47. Ans.(e)

S48. Ans.(d)

S49. Ans.(c)

S50. Ans.(a)

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Bilingual

Solution (51-55):

In the given Input-Output there are different alphabets. Some are of even number of alphabets and some are of odd number of alphabets. In every step both odd and even number of alphabets is arranging. In first step smallest even number of alphabet are arranged and this is left to right arrangement. And smallest odd number of alphabet is arranged from right side, and this is right to left arrangement. And this process is continued up to the last step.

Input: a by severe each midst festival university you network institute

Step I: by severe each midst festival university you network institute a

Step II: each by severe midst festival university network institute a you

Step III: severe each by festival university network institute a you midst

Step IV: festival severe each by university institute a you midst network

Step V: university festival severe each by a you midst network institute

S51. Ans.(c)

Sol. severe each by festival university network institute a you midst

S52. Ans.(b)

Sol. Network

S53. Ans.(d)

Sol. by

S54. Ans.(a)

Sol. festival

S55. Ans.(a)

Sol. festival severe each by university institute a you midst network



Solutions (56-60):

From the given input and final step it is understood that , In the first step smallest number is placed to the right side and for the second step smallest number is shifted to the second last place and for further step number arrangement is done from right to left. And words are arranged in descending order according to the words in dictionary. But in each step, word with largest alphabet is preceded by the alphabet whose numerical value is same to the number which is arranged in same step from right side.

For example:-

d victory.....4

↓
Numerical value of d=4

m man.....13

↓
Numerical value of m=13

And same process is continued till last step.

Input: 12 18 make result 9 25 towards success
Step I: I towards 12 18 make result 25 success 9
Step II: L success I towards 18 make result 25 9 12
Step III: R result L success I towards make 25 9 12 18
Step IV: Y make R result L success I towards 9 12 18 25

S56. Ans.(a)

Sol. make

S57. Ans.(a)

Sol. Fifth

S58. Ans.(e)

S59. Ans.(a)

Sol. Step IV

S60. Ans.(a)

Sol. Towards

Solution (61-65):

The word and number arrangement machine rearranges the input with the logic that in step I, it shifts the largest number to the left-most place and the last word coming in English alphabetical series to the rightmost place. In step II, it shifts the smallest number to the leftmost place and the next word (in reverse alphabetical order) to the rightmost. In step III 2nd largest number is shifted to the leftmost place and so on.

Input: fun 89 at the 28 16 base camp 35 53 here 68
Step I: 89 fun at 28 16 base camp 35 53 here 68 the
Step II: 16 89 fun at 28 base camp 35 53 68 the here
Step III: 68 16 89 at 28 base camp 35 53 the here fun
Step IV: 28 68 16 89 at base 35 53 the here fun camp
Step V: 53 28 68 16 89 at 35 the here fun camp base
Step VI: 35 53 28 68 16 89 the here fun camp base at

S61. Ans.(e)

S62. Ans.(c)

S63. Ans.(d)

S64. Ans.(a)

Sol. Step V

S65. Ans.(a)

Sol. at

Solutions (66-70):

Concepts for words arrangement:- We have to consider the last letter of each word; and whichever is smallest one is arranged in first step. And similarly in second step, last letter of word which is greater than last letter of word which is arranged in first step according to English dictionary is arranged. Arrangement is left to right.

For example→ 'd' is smallest in all sets of last letter of words, so 'based' is arranged in first step.

Number arrangement→ We have to consider the difference of digits of particular number. And the difference which is lowest, that particular number is arranged in first step. And same process is continued in ascending order from left to right.

For example→ 79 58 26 39 49

Difference of digits in a number $\Rightarrow 79 \Rightarrow 9 - 7 \Rightarrow 2$ (It is a lowest difference among all differences of all other numbers)

Input: primary 15 food 38 inflation 89 higher 47 commerce 79

Step I: food 89 primary 15 38 inflation higher 47 commerce 79

Step II: food 89 commerce 79 primary 15 38 inflation higher 47

Step III: food 89 commerce 79 inflation 47 primary 15 38 higher

Step IV: food 89 commerce 79 inflation 47 higher 15 primary 38

S66. Ans.(a)

Sol. commerce

S67. Ans.(a)

Sol. fifth

S68. Ans.(a)

Sol. four

S69. Ans.(e)

S70. Ans.(d)

Solution (71-75):

Concepts for words arrangement:- We have to count the letter of each word. And the word which is lowest in count arranged first to the left. And this process is further continued.

For example→ 'the' -total number of letter=3(which is lowest among all the word given in question) . So this word "the" arranged first to left.

Number arrangement→ We have to consider the addition value of digits of number. And the addition value which is lowest, that particular number is arranged in first step. And same process is continued in ascending order from right to left.

For example→ 15 32 53 22 43

Addition value $\Rightarrow 22 \Rightarrow 2 + 2 \Rightarrow 4$ (lowest addition value)

So, 22 is arranged first.



Input: 71 51 while 34 prices 27 were 32 significantly cut
Step I: cut 71 51 while 34 prices 27 were significantly 32
Step II: were cut 71 while 34 prices 27 significantly 32 51
Step III: while were cut 71 prices 27 significantly 32 51 34
Step IV: prices while were cut 27 significantly 32 51 34 71
Step V: significantly prices while were cut 32 51 34 71 27

S71. Ans.(b)

Sol. five

S72. Ans.(a)

Sol. 32

S73. Ans.(b)

Sol. prices

S74. Ans.(e)

Sol. Step III

S75. Ans.(b)

Sol. significantly



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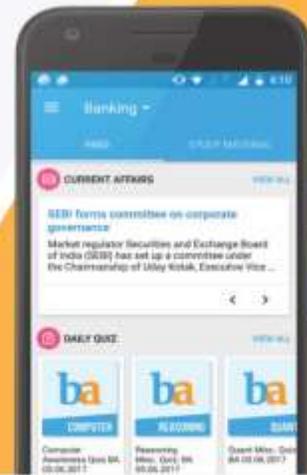




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