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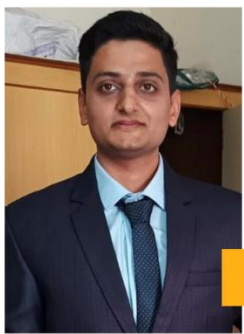
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200 Sequential Output Tracing Questions for Bank Exams. (Level : Easy to Moderate)

Set - 1

Directions: Study the following information carefully to answer these questions:

A number sorting machine when given an input of numbers, rearranges them in a particular manner step-by-step as indicated below till all the numbers are arranged. Given below is an illustration of this arrangement.

Input :	39	121	48	18	76	112	14	45	63	96
Step I :	14	39	121	48	18	76	112	45	63	96
Step II :	14	39	48	18	76	112	45	63	96	121
Step III :	14	18	39	48	76	112	45	63	96	121
Step IV :	14	18	39	48	76	45	63	96	112	121
Step V :	14	18	39	45	48	76	63	96	112	121
Step VI :	14	18	39	45	48	63	76	96	112	121

And Step VI is the last step for this input.

1. What will be Step III for the following input?

Input : 68 182 39 93 129 46 21 58

- A. 21 39 68 129 93 46 58 182
B. 21 39 68 93 129 46 58 182
C. 21 68 39 93 129 46 58 182
D. Can't be determined
E. None of these

2. Given below is the fifth step of an input. What will be the third step?

Step V : 17 32 43 82 69 93 49 56 99 106

- A. 17 32 82 43 69 93 49 56 99 106
B. 17 32 82 69 43 93 49 56 99 106
C. 17 32 82 69 93 43 49 56 99 106
D. 17 32 82 69 43 93 56 49 99 106
E. Can't be determined

3. What will be the last step for the following input?

Input : 138 63 49 93 89 122 32 71

- A. 32 49 63 71 89 93 122 138
B. 32 49 63 71 93 89 122 138
C. 32 49 71 63 89 93 122 138
D. Can't be determined
E. None of these

4. How many steps will be required for getting the final output for the following input?

Input : 101 85 66 49 73 39 142 25 115 74

- A. Five B. Seven C. Six D. Eight E. None of these

5. What will be the third step for the following input?

Input : 67 23 58 159 46 123 74

- A. 23 67 58 46 159 123 74 B. 23 67 58 46 123 74 159
C. 23 46 67 58 123 74 159 D. 23 46 67 58 74 123 159
E. Can't be determined

Set - 2

A number sorting machine when given an input of numbers, rearranges them in a particular manner step-by-step as indicated below till all the numbers are arranged. Given below is an illustration of this arrangement.

Input	:	39	121	48	18	76	112	14	45	63	96
Step I	:	14	39	121	48	18	76	112	45	63	96
Step II	:	14	39	48	18	76	112	45	63	96	121
Step III	:	14	18	39	48	76	112	45	63	96	121
Step IV	:	14	18	39	48	76	45	63	96	112	121
Step V	:	14	18	39	45	48	76	63	96	112	121
Step VI	:	14	18	39	45	48	63	76	96	112	121

And Step VI is the last step for this input.

6. What will be Step III for the following input?

Input : 68 182 39 93 129 46 21 58

- A. 21 39 68 129 93 46 58 182 B. 21 39 68 93 129 46 58 182
C. 21 68 39 93 129 46 58 182 D. Can't be determined
E. None of these

7. Given below is the fifth step of an input. What will be the third step?

Step V : 17 32 43 82 69 93 49 56 99 106

- A. 17 32 82 43 69 93 49 56 99 106 B. 17 32 82 69 43 93 49 56 99 106
C. 17 32 82 69 93 43 49 56 99 106 D. 17 32 82 69 43 93 56 49 99 106
E. Can't be determined

8. What will be the last step for the following input?

Input : 138 63 49 93 89 122 32 71

A. 32 49 63 71 89 93 122 138

B. 32 49 63 71 93 89 122 138

C. 32 49 71 63 89 93 122 138

D. Can't be determined

E. None of these

9. How many steps will be required for getting the final output for the following input?

Input : 101 85 66 49 73 39 142 25 115 74

A. Five

B. Seven

C. Six

D. Eight

E. None of these

10. What will be the third step for the following input?

67 23 58 159 46 123 74

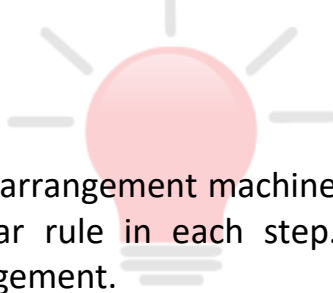
A. 23 67 58 46 159 123 74

B. 23 67 58 46 123 74 159

C. 23 46 67 58 123 74 159

D. 23 46 67 58 74 123 159

E. Can't be determined



Set – 3

A word arrangement machine when given an input line of words rearranges them following a particular rule in each step. The following is an illustration of input and various steps rearrangement.

Input : Holocaust 14 Oblivion 53 Entrepreneur 29 Transformation 37 Petrichor 22 Disadvantageous 57

Step 1: 22 Holocaust 14 Oblivion 53 Entrepreneur 29 37 Petrichor Disadvantageous 57 Transformation

Step 2: 22 Oblivion Holocaust 14 53 Entrepreneur 37 Petrichor 29 Disadvantageous 57 Transformation

Step 3: 22 Oblivion 14 Holocaust 53 37 Petrichor Entrepreneur 29 Disadvantageous 57 Transformation

Step 4: 22 Oblivion 14 Holocaust 53 Petrichor 37 Entrepreneur 29 Disadvantageous 57 Transformation And Step IV is the last step of the arrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

Input for the questions:

Entertainment 25 Thankful 49 Congratulations 32 Ambulance Anniversary 63 38

11. What is the position of the word 'Thankful' in the 4th step?

- A. Fourth from the right B. Fourth from the left C. Fifth from the left
D. Sixth from the right E. None of these

12. Which is the third element to the right of the seventh element from the right end in the second last step?

- A. Entertainment B. 63 C. Thankful D. 38 E. None of these

13. How many steps will be required to complete the arrangement?

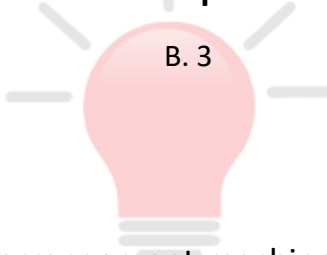
- A. 3 B. 5 C. 4 D. 2 E. None of these

14. Which of the following steps will be the last but one?

- A. 5 B. 4 C. 3 D. 6 E. None of these

15. How many elements are there between 'Entertainment' and 'Ambulance' in the second last step?

- A. 4 B. 3 C. 5 D. 6 E. None of these



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Set – 4

A word arrangement machine when given an input line of words rearranges them following a particular rule in each step. The following is an illustration of input and various steps rearrangement.

- Input :** things 05 in 17 the 14 life 21 little 24 enjoy
Step 1: in things 25 50 the 17 life 05 little 20 enjoy
Step 2: in the things 52 05 71 life 50 little 02 enjoy
Step 3: in the life things 29 25 50 25 little 04 enjoy
Step 4: in the life enjoythings 92 52 05 52 little 40
Step 5: in the life enjoy little things 16 12 10 12 09
Step 6: in the life enjoy little things 16 12 12 10 09

And Step VI is the last step of the arrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

Input for the questions:

in believe 13 09 have 27 to 23 you 35 yourself

16. Which is the third element to the right of the sixth element from the right end in the second last step?

- A. 06 B. yourself C. 12 D. 16 E. None of these

17. How many steps will be required to complete the arrangement?

- A. Three B. Five C. Four D. Six E. None of these

18. What is the sum of numbers in the step 4?

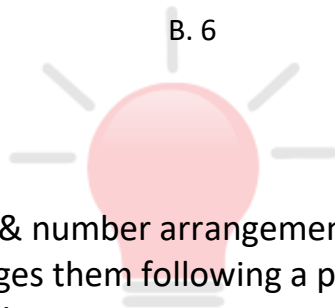
- A. 174 B. 52 C. 162 D. 135 E. None of these

19. What is the position of the word 'believe' in the 4th step?

- A. Third to the left B. Fourth to the right C. Seventh from the right D. fifth to the right E. Sixth from the left

20. Which of the following steps will be the last but one?

- A. 4 B. 6 C. 3 D. 5 E. None of these



Set – 5
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The Question Bank

A word & number arrangement machine when given an input line of words & numbers rearranges them following a particular rule in each step. The following is an illustration of an input & its rearrangement.

Input : sell 11 keep 23 day 63 small 49 clock 58 pain 88

Step 1 : 89 clock sell 11 keep 23 day 63 small 49 58 pain

Step 2 : 62 day 89 clock sell 11 keep 23 small 49 58 pain

Step 3 : 59 keep 62 day 89 clock sell 11 23 small 49 pain

Step 4 : 48 pain 59 keep 62 day 89 clock sell 11 23 small

Step 5 : 22 sell 48 pain 59 keep 62 day 89 clock 11 small

Step 6 : 10 small 22 sell 48 pain 59 keep 62 day 89 clock

Step 6 is the last step of the above input as per rules followed in the above steps.

Following is the input which needs to be rearranged as per the above logic.

Input: vast 78 code 47 bill 29 flat 38 like 25 upper 69



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21. Which of the following is exactly in the middle of 'like' and 'bill' in step 4?

- A. code B. 68 C. Vast D. Flat E. None of these

22. "29 38 like" is seen in the same sequence for the first time in which of the following steps?

- A. Step 1 B. Step 2 C. Step 3 D. Step 4 E. None of these

23. Which of the following is third to the left of the element which is eight from the right end in step 5?

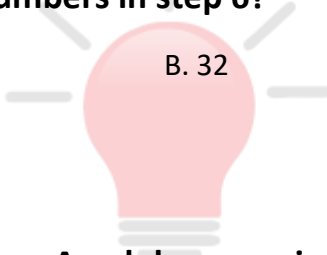
- A. Upper B. 38 C. 28 D. like E. none of these

24. Which of the following steps is "68 code 79 bill vast 47 29 flat 38 like 25 upper"?

- A. Step 1 B. Step 2 C. Step 3 D. Step 5 E. None of these

25. What is the difference between the sum of odd numbers and the sum of even numbers in step 6?

- A. 68 B. 32 C. 24 D. 48 E. 40



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The Question Bank

Set – 6

Directions: An alphanumeric machine accepts letters as input and delivers output in form of numbers through different steps. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step. Below mentioned is an illustration of the same.

Input: glory gained through resolving conflict between these personalities

Step1: 8 6 10 12 12 8 6 14

Step2: 2 2 4 8

Step3: 2 4

Step4: 10

Step4 is the final output.

On the basis of above illustration find the output and different steps for the following input.

Input: decreasing glaciers result from the melting snow valley

26. What is the cube of the value that is obtained as final output?

- A. 729 B. 343 C. 125 D. 216 E. None of these

27. Which of the following is the numeric code for 'melting' as per the given pattern?

- A. 12 B. 14 C. 10 D. Can't be determined E. None of these

28. Four of the following are alike in some way and thus form a group, which is the one that does not belong to the group?

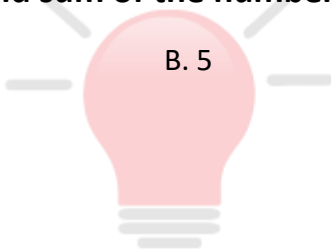
- A. 6 B. 8 C. 12 D. 10 E. 16

29. Which of the following is the correct code for 'snow glaciers' as per the given pattern respectively?

- A. 6 and 10 B. 10 and 7 C. 9 and 7 D. 6 and 14 E. None of these

30. Which of the following is the difference between the sum of the numbers of step 2 and sum of the numbers of step 3?

- A. 6 B. 5 C. 4 D. 8 E. None of these



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Set – 7

Directions (31-40): A word & number arrangement machine when given an input line of words & numbers rearranges them following a particular rule in each step. The following is an illustration of an input & its rearrangement.

Input: live 26 life 19 king 38 size 42 aim 67 my 71

Step 1 67 live 26 life 19 king 38 size 42 my 71 aim

Step 2 38 67 live 26 life 19 size 42 my 71 aim king

Step 3 26 38 67 live 19 size 42 my 71 aim king life

Step 4 19 26 38 67 size 42 my 71 aim king life live

Step 5 42 19 26 38 67 size 71 aim king life live my

Step 6 71 42 19 26 38 67 aim king life live my size

Step 6 is the last step of the above input as per rules followed in the above steps.

Following is the input which needs to be rearranged as per the above logic.

Input: dream 25 dare 64 enjoy 18 smile 23 spread 47 joy 70

31. Which of the following is second to the left of fourth to the right of '64' in step 1?

- A. smile B. 23 C. 18 D. joy E. None of these

32. Which of the following is third to the left of fifth element from the right end in step 6?

- A. 64 B. 23 C. 47 D. dare E. None of these

33. Which of the following steps is "25 64 47 18 smile 23 spread joy 70 dare dream enjoy"?

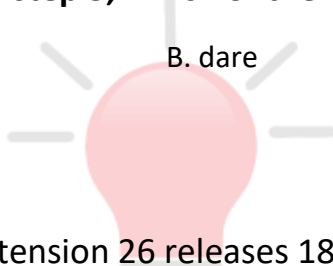
- A. Step 5 B. Step 2 C. Step 3 D. Step 4 E. None of these

34. In which of the following steps "spread 70 dare" is seen in the same sequence for the first time?

- A. Step 1 B. Step 2 C. Step 3 D. Step 4 E. None of these

35. In step 5, which of the following is exactly between '47' and 'joy'?

- A. 70 B. dare C. dream D. enjoy E. None of these



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Input : tension 26 releases 18 because 71 you 5 watch movies 61 24

Step 1: because 5 tension 26 releases 18 71 you watch movies 61 24

Step 2: releases 18 because 5 tension 26 71 you watch movies 61 24

Step 3: movies 24 releases 18 because 5 tension 26 71 you watch 61

Step 4: tension 26 movies 24 releases 18 because 5 71 you watch 61

Step 5: you 61 tension 26 movies 24 releases 18 because 5 71 watch

Step 6: watch 71 you 61 tension 26 movies 24 releases 18 because 5

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

Input: calcium 47 makes 56 body 70 more 21 strong glowing 92 10

36. What is the average of the numbers between 'glowing' and 'makes' in step 2?

- A. 46 B. 35 C. 21 D. 26 E. None of these

37. "makes 47 glowing 21 calcium 10 56 body 70 more strong 92" is which of the following steps?

- A. Step 5 B. Step 4 C. Step 3 D. Step 2 E. None of these

38. In step 6, sum of the numbers which are third from the right end and sixth from the left end is equal to which of the following numbers?

- A. 77 B. 126 C. 87 D. 91 E. None of these

39. Which of the following word/number is third to the right of fifth from the left of 'more' in step 3?

- A. 56 B. body C. 70 D. calcium E. None of these

40. In which of the following steps "56 makes 47" is seen in the same sequence for the first time?

- A. Step 2 B. Step 3 C. Step 4 D. Step 6 E. None of these

Set – 9

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

Input: 62 97 38 74 55 12 86 45 68 22

Step 1: 13 62 97 38 74 55 86 45 68 23

Step 2: 39 13 62 97 74 55 86 68 23 46

Step 3: 56 39 13 97 74 86 68 23 46 63

Step 4: 69 56 39 13 97 86 23 46 63 75

Step 5: 87 69 56 39 13 23 45 63 75 98

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

Input: 88 59 28 94 37 75 15 64 71 48

41. Which of the following number is 5th to left of 49 in step 4?

- A. 60 B. 38 C. 16 D. 72 E. None of these

42. How many numbers are there between the one which is 3rd from the right end and 38 in step 3?

- A. Four B. One C. More than four D. Two E. None of these



43. How many numbers are there between 72 and the one which 4th to left of 76 in step 5?

- A. Three B. Two C. None D. More than three E. None of these

44. What is the position of 88 from the right end in last but one step?

- A. Fourth B. Fifth C. Sixth D. Third E. None of these

45. Which of the following number is 7th from the left end in step 5?

- A. 29 B. 65 C. 76 D. 49 E. None of these

Set – 10

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

Input: nature create nothing useless without purpose

Step I: aceert aenrtu eelsssu eopprsu ghinnot hiottuw

Step II: 45 41 31 27 24 11

Step III: 8 8 26

Step IV: 16 52

Step V: 16

Step V is the last step of the arrangement.

Following the same pattern solve the given input.

Input: imagine yourself trapped inside hellish nightmare

46. What will be the value obtained in final step of the arrangement?

- A. 32 B. 38 C. 45 D. 54 E. 68

47. Which of the following will not be in step I of the given arrangement?

- A. aegiimn B. aeghinmrt C. ehfills D. deiins E. eflorsuy

48. What would be the sum of the values that obtained in step III?

- A. 65 B. 58 C. 66 D. 74 E. 52

49. Which one of the numbers is representing 'nightmare' in step II?

- A. 15 B. 6 C. 24 D. 27 E. 11

50. How many numbers that obtained in step II is/are prime numbers?

- A. More than three B. None C. One D. Two E. Three

Set – 11

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: hard 27 nut 14 impossible 54 to 86 crack 62

Step1:54 hard 27 nut 14 impossible 86 crack 62 to

Step2:86 54 hard 27 14 impossible crack 62 to nut

Step3:14 86 54 hard 27 crack 62 to nut impossible

Step4:62 14 86 54 27 crack to nut impossible hard

Step5:27 62 14 86 54 to nut impossible hard crack

Step 5 is the final output.

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

Input: deeds 39 for 96 humanity 75 give 27 pleasure 62

51. Which of the following elements is third to the left of fifth element from right end in step 3?

- A. crack B. 75 C. deeds D. 39 E. None of these

52. Four of the following five are alike in a certain way and thus form a group. Which of the following does not belong to the group?

- A. for - 27 B. pleasure - 75 C. 96 - deeds D. 39 - pleasure E. pleasure - 27

53. In which of the following steps, 96 is seen exactly between 62 and 75 for the first time?

- A. Step 1 B. Step 3 C. Step 4 D. Step 5 E. None of these

54. Which of the following is second to the right of '39' in step 4?

- A. 75 B. humanity C. 96 D. pleasure E. None of these

55. What is the sum of the digits of the numbers which are second from left end and fourth from right end in step 3?

- A. 35 B. 29 C. 36 D. 40 E. 24

Set – 12

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: developer 76 carpenter 53 duster 61 per 24 storekeeper 38

Step1: 26 developer 76 carpenter 53 duster 61 storekeeper 38 per

Step2: 40 26 developer 76 carpenter 53 61 storekeeper per duster

Step3: 51 40 26 developer 76 61 storekeeper per duster carpenter

Step4: 59 51 40 26 76 storekeeper per duster carpenter developer

Step5: 78 59 51 40 26 per duster carpenter developer storekeeper

Step 5 is the final output.

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

Input: flip 64 championship 37 internship 29 philip 71 companionship 55

56. In which of the following steps "internship 71" is seen in the same sequence for the first time?

- A. Step 1 B. Step 2 C. Step 3 D. Input E. None of these

57. How many words are to the right of '27' in step 4?

- A. Three B. Two C. Five D. Four E. More than five

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

- A. 51 B. 28 C. 44 D. 36 E. None of these

59. Which of the following elements is fourth to the left of 'internship' in step 5?

- A. 53 B. 35 C. flip D. 27 E. None of these

60. Which of the following elements is/are between 'internship' and 'flip' in step 2?

- A. 71 and 55 B. companionship C. 55 and companionship D. Both A and B E. None of these

Set – 13

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: fire 76 for 53 fauna 14 favour 27 freedom 36

Step1: 78 fauna fire for 53 14 favour 27 freedom 36

Step2: 51 favour 78 fauna fire for 14 27 freedom 36

Step3: 38 freedom 51 favour 78 fauna fire for 14 27

Step4: 25 fire 38 freedom 51 favour 78 fauna for 14

Step5: 16 for 25 fire 38 freedom 51 favour 78 fauna

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

Input: prison 24 pirates 61 proxy 70 prone 53 prejudice 17

61. Which of the following steps is the step 3 of the given input?

- A. 51 prone prison 59 pirates 72 prejudice 24 proxy 17
B. 59 pirates 72 prejudice prison 24 proxy prone 53 17
C. 51 prison 59 pirates 72 prejudice 24 proxy prone 17
D. prison 59 pirates 72 prejudice 24 proxy 51 prone 17
E. None of these

62. Which of the following is third to the right of the one which is third from the left end in step1?

- A. pirates B. 53 C. prone D. 61 E. proxy

63. Which of the following comes exactly between 'prone' and 'pirates' in step 4?

- A. prison B. 51 C. 53 D. All of these E. None of these

64. In which of the following steps 'prison 59 pirates' is seen in the same sequence for the first time?

- A. Step 1 B. Step 3 C. Step 2 D. Step 5 E. Step 4

65. What is the difference between the sum of all the prime numbers and the sum of all the even numbers in step 2?

- A. 22 B. 29 C. 33 D. 28 E. 45

Set – 14

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: fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers 52

Step I: 52 fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers

Step II: 52 fertilizers fruit 29 frozen 71 vegetable 46 cultivation 39

Step III: 52 fertilizers 71 fruit 29 frozen vegetable 46 cultivation 39

Step IV: 52 fertilizers 71 cultivation fruit 29 frozen vegetable 46 39

Step V: 52 fertilizers 71 cultivation 46 fruit 29 frozen vegetable 39

Step VI: 52 fertilizers 71 cultivation 46 vegetable fruit 29 frozen 39

Step VII: 52 fertilizers 71 cultivation 46 vegetable 29 fruit frozen 39

Step VIII: 52 fertilizers 71 cultivation 46 vegetable 29 frozen fruit 39

Step IX: 52 fertilizers 71 cultivation 46 vegetable 29 frozen 39 fruit

Step IX is the final output.

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

Input: roam 12 countries 37 travelling 59 across 63 globe 94



66. After completion of step III, how many more steps are needed to reach the final output?

- A. 7 B. 6 C. 5 D. 9 E. 4

67. Which of the following is fourth to the right of second element from left end in step III?

- A. roam B. 63 C. 37 D. 59 E. countries

68. Which of the following sequence of elements is unique?

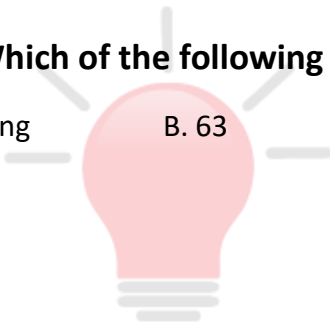
- A. countries 37 59 B. countries 37 across C. Both option A and B
D. countries roam 37 E. None is unique

69. How many words are there between the third element from left end and second element from right end in step VIII?

- A. Three B. Two C. Four D. Five E. None of these

70. Which of the following is third to the left of 'across' in the final output?

- A. travelling B. 63 C. globe D. 59 E. None of these



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The Question Bank

Set – 15

Directions: An alphanumeric machine accepts letters as input and delivers output in form of numbers through different steps. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step. Below mentioned is an illustration of the same.

Input: shady sun made weather pleasant to roam around

Step1: 8 6 6 10 10 4 6 8

Step2: 48 60 40 48

Step3: 12 8

Step4: 10

Step4 is the final output.

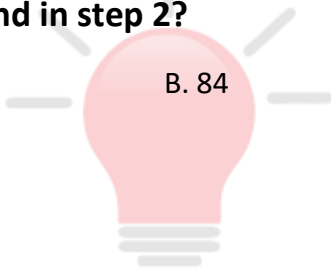
On the basis of above illustration find the output and different steps for the following input.

Input: early to bed keeps your mind fit robust



- 71. What is the sum of the digits of the value that is obtained as final output?**
 A. 4 B. 5 C. 6 D. 7 E. None of these
- 72. Which of the following is the difference between the sum of numbers that are greater than 7 and the sum of numbers that are less than 7 in step 1?**
 A. 7 B. 5 C. 4 D. 6 E. None of these
- 73. Four of the following five are alike in a certain way and thus form a group. Which of the following does not belong to the group?**
 A. $36 - 6$ B. $48 - 12$ C. $32 - 4$ D. $16 - 4$ E. $42 - 14$
- 74. Which of the following is the square of the sum of the digits of step 3?**
 A. 100 B. 49 C. 64 D. 81 E. None of these
- 75. What is the sum of the numbers that are second from left end and second from right end in step 2?**

- A. 62 B. 84 C. 59 D. 75 E. 49



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 The Question Bank

Set – 16

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: 88 25 68 56 58 83 94

Step I: 88 68 25 56 58 83 94

Step II: 88 68 94 25 56 58 83

Step III: 88 68 94 58 25 56 83

Step IV: 88 68 94 58 83 25 56

Step V: 88 68 94 58 83 56 25

Step V is the last step of the arrangement.

Following the same pattern solve the questions given below.



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76. Which of the following will be step III of the input '87 37 54 98 46 29'?

- A. 98 87 29 37 46 54 B. 98 87 29 46 37 54 C. 87 98 29 37 46 54
D. 98 87 29 46 54 37 E. None of these

77. How many steps will be required to complete the arrangement '38 71 26 93 37 44 54'?

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

78. Which of the following would be the input step for the arrangement whose step IV is '75 49 63 45 53 16 26 41'?

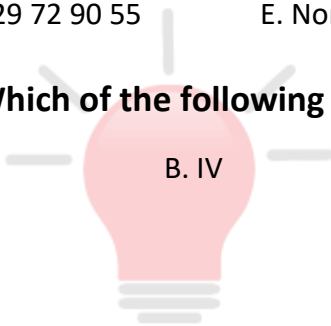
- A. 45 75 49 53 16 26 63 41 B. 45 49 53 16 63 75 26 41 C. 75 63 49 53 45 16 41 26
D. 16 63 45 53 49 75 26 41 E. Can't be determined

79. Which of the following will be step IV of the input '90 29 72 84 55 76'?

- A. 84 76 55 29 90 72 B. 76 84 29 55 90 72 C. 84 76 55 29 72 90
D. 76 84 29 72 90 55 E. None of these

80. Which of the following will be '95 77 49 56 82 37' of the input '82 49 56 77 95 37'?

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



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The Question Bank

Set – 17

Directions: An alphanumeric machine accepts letters as input and delivers output in form of numbers through different steps. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step. Below mentioned is an illustration of the same.

Input: spread joy laughter by sharing smile with masses

Step1: 9 2 11 5 6 4 7 9
Step2: 99 10 42 36
Step3: 57 26
Step4: 5

Step4 is the final output.

On the basis of above illustration find the output and different steps for the following input.

Input: being good to everyone sometimes invite sad trouble

81. If '3' is added to one of the values of step 3 then what would be its consequence on the final output?

- A. Final output will remain indifferent
- B. Final output will be decreased by 2
- C. Final output will be decreased by 1
- D. Final output will be increased by 2
- E. Final output will be increased by 1

82. What is the square of the sum of the numbers of step 3?

- A. 729
- B. 676
- C. 784
- D. 529
- E. None of these

83. If in the given input 'sad' is replaced by "so" then which of the following values of step 2 will change?

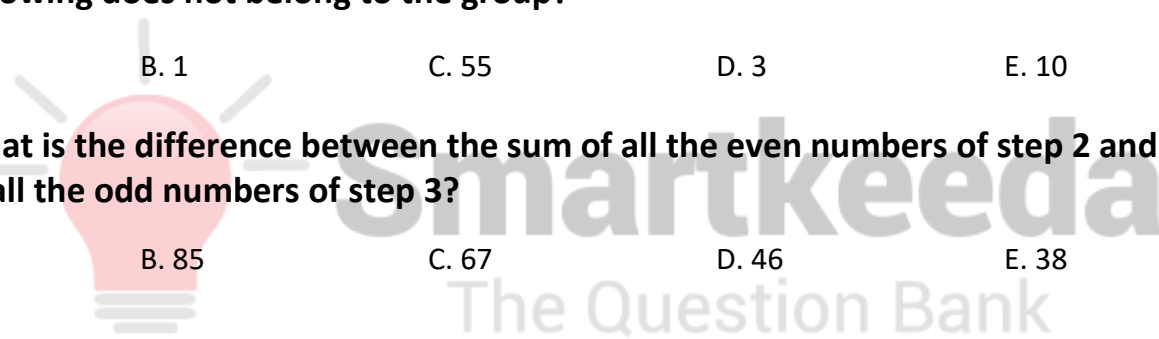
- A. 20
- B. 16
- C. 77
- D. 54
- E. None of the values will change

84. Four of the following are similar in a certain way and thus form a group. Which of the following does not belong to the group?

- A. 22
- B. 1
- C. 55
- D. 3
- E. 10

85. What is the difference between the sum of all the even numbers of step 2 and the sum of all the odd numbers of step 3?

- A. 77
- B. 85
- C. 67
- D. 46
- E. 38



Set – 18

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: name 72 nest 24 near 35 nostalgic 43 narrow 67
Step1: 72 nest near 35 nostalgic 43 narrow 67 name 242
Step2: 72 nest near nostalgic 43 67 name 242 narrow 335
Step3: 72 nest nostalgic 67 name 242 narrow 335 near 343
Step4: 72 nostalgic name 242 narrow 335 near 343 nest 367
Step5: name 242 narrow 335 near 343 nest 367 nostalgic 722
Step 5 is the final output.

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

Input: team 55 taboo 48 tackle 83 tissue 69 test 11.

86. In which of the following steps, 'taboo' 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

87. Which of the following is the final output?

- A. taboo 311 tackle 482 test 355 team 369 tissue 383
B. taboo 311 tackle 482 team 355 test 369 tissue 383
C. tissue 383 taboo 311 tackle 482 team 355 test 369
D. tackle 482 team 355 test 369 tissue 383 taboo 311
E. None of these

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

- A. 268 B. 316 C. 393 D. 413 E. None of these

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

- A. 83 B. tissue C. 69 D. test E. None of these

90. In which of the following steps "83 tissue taboo" 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



Set – 19

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: faster 24 and 37 rapid 61 progressive 18 requirement 85 building 93
Step I: 24 faster and 37 rapid 61 progressive 18 requirement 85 building 93
Step II: 24 progressive faster and 37 rapid 61 18 requirement 85 building 93
Step III: 24 progressive 61 faster and 37 rapid 18 requirement 85 building 93
Step IV: 24 progressive 61 requirement faster and 37 rapid 18 85 building 93
Step V: 24 progressive 61 requirement 18 faster and 37 rapid 85 building 93
Step VI: 24 progressive 61 requirement 18 building faster and 37 rapid 85 93
Step VII: 24 progressive 61 requirement 18 building 37 faster and rapid 85 93
Step VIII: 24 progressive 61 requirement 18 building 37 faster 93 and rapid 85
Step IX: 24 progressive 61 requirement 18 building 37 faster 93 rapid and 85
Step X: 24 progressive 61 requirement 18 building 37 faster 93 rapid 85 and

Step X is the final output.

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

Input : technology 47 transfer 26 rate 72 achieving 51 extra 91 version 32

91. How many steps are needed to reach the final output?

- A. Ten B. Nine C. Eight D. Eleven E. None of these

92. Which of the following is fourth to the left of '47' in step VI?

- A. version B. 51 C. transfer D. 26 E. 91

93. In which of the following steps "version 91 47 rate" is seen in the same sequence?

- A. Step IX B. Step VIII C. Both A or B D. Step VII E. None of these

94. Which of the following comes exactly between 51 and 91 in step III?

- A. rate B. 26 C. extra D. 72 E. None of these

95. Which of the following is seventh from the right end in final output?

- A. transfer B. achieving C. extra D. 72 E. None of these

Set – 20

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

Step II: 88 79 96 history imagined 94 63 leader every create

Step III: 88 79 96 history imagined 94 63 every create leader

Step IV: 88 79 96 94 imagined 63 every create leader history

Step V: 88 79 96 94 63 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 53 46 anyplace 74

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

- A. Three B. Seven C. Six D. Five E. Four

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

- A. 39 74 46 53 important 42 never leaved object anyplace
B. 39 74 46 53 42 important never leaved object anyplace
C. 39 74 46 42 53 never leaved object anyplace important
D. 39 74 46 53 42 important never object leaved anyplace
E. None of these

98. 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

99. How many element(s) will be there between '74' and 'leaved' in Step IV?

- A. Six B. Four C. Seven D. Five E. Three

100. 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



Set – 21

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

Input: always begin from bottom mount high

Step I: aabdho eimty inou ggnooy gmnou isst

Step II: 3 44 31 23 2 49

Step III: 48 18 72

Step IV: 3 9

Step V: 144

Step V is the last step of the arrangement.

Following the same pattern solve the given input.

Input: fear creates demons only hope defeat

101. What will be the value obtained in final step of the arrangement?

- A. 36 B. 26 C. 81 D. 49 E. 72

102. What is the product of the numbers obtained in step IV?

- A. 36 B. 16 C. 24 D. 18 E. 12

103. Which of the following numbers will represent 'Fear' in step II?

- A. 36 B. 38 C. 25 D. 20 E. 18

104. Which of the following words will be obtained in step I?

- A. aeit B. aeefhix C. ehmmow D. bmop E. aeeguw

105. What is the sum of the numbers obtained in step III?

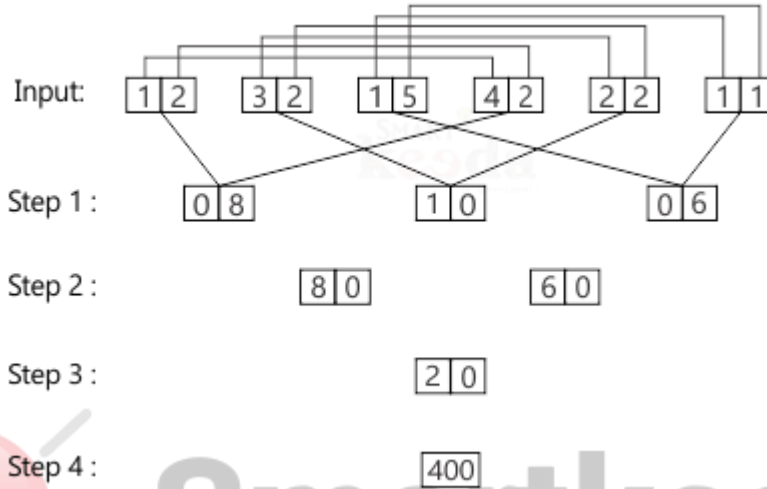
- A. 108 B. 282 C. 96 D. 42 E. 216



Set – 22

Directions: Read the given information carefully and answer the questions given beside:

The first step is the resultant of the product and sum of the digits in input as per the lines indicated. Further steps are obtained by applying certain logic. Numbers of step II have been obtained by using at least 1 digit of each number in step 1. Each step is a resultant of previous step.



106. Which one of the following is half of the value obtained in final step?

- A. 151250 B. 142870 C. 160080 D. 202500 E. None of these

107. Which one of the following is a number obtained in step II?

- A. 1550 B. 1650 C. 1200 D. 1100 E. None of these

108. Find the difference of the numbers obtained in step II?

- A. 660 B. 550 C. 630 D. 420 E. None of these

109. Which one of the following is one of the numbers obtained in step I ?

- A. 32 B. 44 C. 56 D. 50 E. None of these

110. Which one of the following is the required final step?

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



Set – 23

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

111. 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

112. 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

113. 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

114. 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

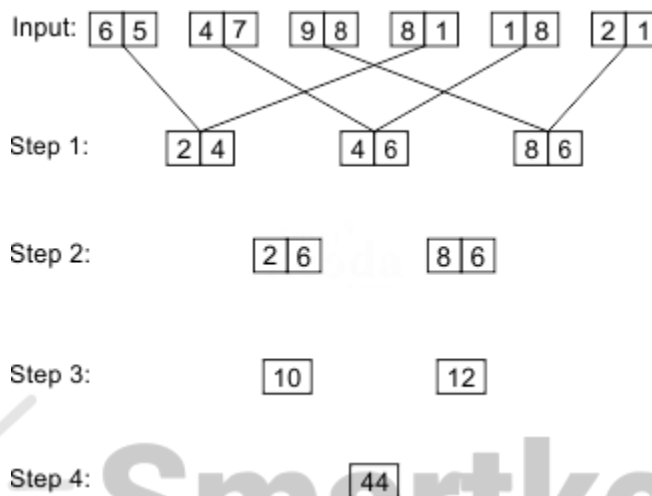
115. What is the sum of the numbers that are towards the right of 'base' in step I?

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

Set – 24

Directions: Study the following information carefully and answer the questions given beside:

A number arrangement machine arranges two digit numbers in a certain manner. Step-1 is obtained by taking the difference of the numbers given in Input on the basis of given arrows. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step.



Using the above illustration solve the following input:

Input: [5|8] [8|1] [1|6] [9|0] [2|3] [7|2]

116. What would be the difference of the sum of the digits of both boxes of step-2?

- A. 4 B. 7 C. 11 D. 6 E. 9

117. What would be the sum of both the boxes of step-3?

- A. 36 B. 48 C. 16 D. 32 E. 24

118. Which of the following numbers will be present in step-1?

- A. 84 B. 62 C. 46 D. Both 84 and 62 E. All of these

119. What would be the sum of the digits present in step-4?

- A. 7 B. 16 C. 10 D. 12 E. 9

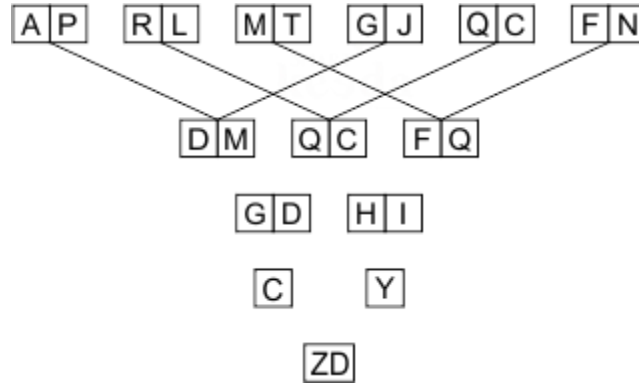
120. Which of the following combinations correctly represents the 1st digit of 3rd box from right end, 2nd digit of 1st box from left end and 2nd digit of middle box of step-1?

- A. [8|6|6] B. [2|6|4] C. [4|8|2] D. [6|0|4] E. [2|8|6]

Set – 25

Directions: Study the following information carefully and answer the questions given beside:

A letter arrangement machine arranges two letters into a typical manner. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step.



Using the above illustration solve the following input:



121. Which of the following vowel(s) is not present in step-2?

- A. E B. O C. U D. Both E and U E. All of these

122. What would be the sum of the numerical position of the letters of both boxes of step-3?

- A. 31 B. 18 C. 26 D. 20 E. 39

123. Which of the following letter(s) is/are present in step-2?

- A. F B. K C. W D. Both K and W E. All of these

124. How many letters are there in the english alphabet series between the letters present in step-4?

- A. 5 B. 9 C. 4 D. 2 E. 11

125. Which of the following word(s) can be formed using the letters present in step-1?

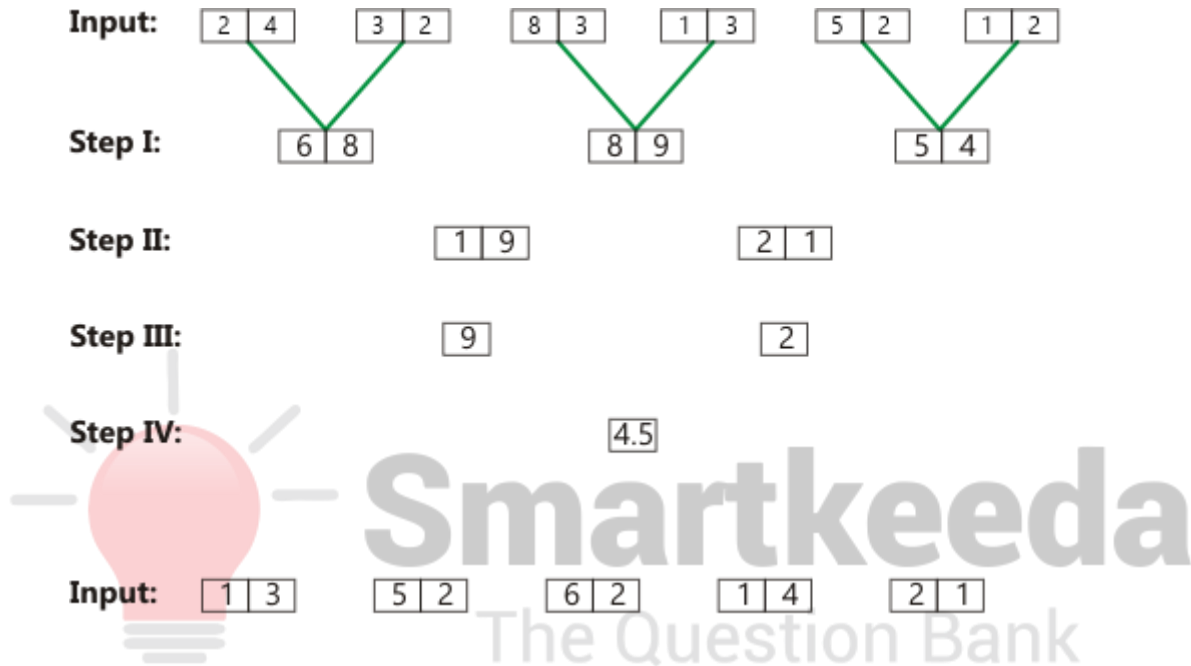
- A. AIR B. NET C. TIP D. RAT E. LIP



Set – 26

Directions: Study the following information carefully and answer the questions given beside:

The first step has been obtained by multiplying the digits in input. The next steps are not obtained the same way. They are obtained by applying certain logic. Numbers of step II have been obtained by using at least 1 digit of each number in step 1. Each step is a resultant of previous step.



126. Which of the following will be the last step?

- A. 6 B. 7.5 C. 3.5 D. 5 E. None of these

127. What is the sum of the numbers of step III?

- A. 9 B. 12 C. 18 D. 26 E. None of these

128. If we do half of each number in step II, what will be the difference of those numbers?

- A. 0 B. 1 C. 2 D. 3 E. None of these

129. Which of the following is a number in step I?

- A. 64 B. 32 C. 69 D. 67 E. None of these

130. If the sum of numbers of step III is multiplied by step IV, find the resultant number.

- A. 31.5 B. 50 C. 26.4 D. 37.5 E. None of these

Set – 27

Directions: A number and arrangement machine when arranges an input line of words and numbers rearranges them following a particular logic at each step. Below mentioned is an illustration of the same.

Input: drink 25 milk 38 daily 47
daily drink milk 25 38 47
25 11 11 10 24 28
milk drink 38 daily 47 25
drink milk daily 47 25 38

The above mentioned steps are the steps to get the final output but are not in the correct sequence. You have to arrange the steps as per the conditions given below.

- I. The step that starts with a word that has even number of letters is an odd numbered step.
- II. The step number of the step that starts as well as ends with a number is a perfect square.
- III. The step that ends with a prime number is below at least two steps.
- IV. The step that ends with a perfect square is not the second last step.

Find the different steps (in right order) for the input given below.

Input: goods 32 import 58 46 value

131. Which element is third to the left of 58 in step 3?

- A. import B. value C. 46 D. 32 E. None of these

132. Which of the following elements is fourth from the right end in step 4?

- A. 20 B. 6 C. 19 D. 5 E. 24

133. Which of the following will come exactly between goods and import in step 2?

- A. value B. 32 C. 46 D. 58 E. None of these

134. Which of the following is on the immediate right of the fourth element from left end in step 2?

- A. goods B. 46 C. 32 D. 58 E. None of these

135. What is the sum of 3rd element from the left end and 2nd element from right end in step IV?

- A. 29 B. 30 C. 24 D. 32 E. None of these

Set – 29

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

141. 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

142. 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

143. 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

144. 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

145. 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

Set – 30

Directions: A word arrangement machine when given an input line of words rearranges them following a particular logic at each step.

Input : Letters Received Box Post Office

Step I: Received Letters Box Post Office

Step II: Received Letters Office Box Post

Step III: Received Letters Office Post Box

Step IV: Box Received Letters Office Post

Step V : Box Letters Received Office Post

Step VI: Box Letters Office Received Post

Step VII: Box Letters Office Post Received

Step VII is the last step and the final output as well.

You have to find out the final output and the different steps of rearrangement for the following input.

Input: Online Recharge Website Pay Less

146. Which of the following is second to the right of fifth word from right end in step III?

- A. Less B. Website C. Online D. Pay E. None of the above

147. "Less Recharge Website Online Pay" represents which of the following steps?

- A. Step V B. Step IV C. Step II D. Step III E. There is no such step

148. Which of the following is the final step of the output?

- A. Recharge Website Online Less Pay B. Less Online Recharge Website Pay
C. Recharge Online Website Pay Less D. Less Online Pay Recharge Website
E. None of these.

149. Which of the following is second to the right of "Website" in step II?

- A. Online B. Pay C. Recharge D. Less E. None of the above

150. In which of the following steps, Less is placed second to the left of Recharge?

- A. Step III B. Step IV C. Step V D. Step VI E. There is no such step





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Set – 31

Directions: A word and number arrangement machine when given an input line of word and numbers arranges them following a particular logic at each step. The following is an illustration of the input and various steps to obtain the output.

Input : toy 82 craft 73 artist 55 fragment 68 wrinkle 27

Step I : 27 82 craft 73 artist 55 fragment 68 wrinkle toy

Step II : 82 27 73 artist 55 fragment 68 wrinkle toy craft

Step III: 73 82 27 55 fragment 68 wrinkle toy craft artist

Step IV: 55 73 82 27 fragment 68 toy craft artist wrinkle

Step V : 68 55 73 82 27 toy craft artist wrinkle fragment

Step V is the final output.

Find the final output and various steps for the following input.

Input : action 46 frog 67 jam 28 flatter 59 terrific 39

151. Which of the following is third to the left of '39' in step II?

- A. 59 B. flatter C. 67 D. action E. None of these

152. What is the position of "terrific" in step IV?

- A. Immediate left of 39 B. Immediate right of frog C. Second to the left of 39
D. Third to the right of 46 E. None of these

153. What is the difference between the second element from right end in step I and second element from left end in step II?

- A. 12 B. 9 C. 11 D. 5 E. Can't be determined

154. Which of the following words is towards the left of "jam" in step IV?

- A. terrific B. flatter C. frog D. All of these E. None of these

155. Which of the following comes exactly between 39 and frog in the final output?

- A. jam B. 28 C. 46 and 28 D. jam and 28 E. All of these



Set – 32

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

Input: 23 47 52 69 71

Step I: 16 38 20 64 17

Step II: 16 38 64 20 17

Step III: 21 33 30 06 24

Step IV: 06 21 24 30 33

Step V: 11 27 31 38 42

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

Input: 56 29 34 72 41

156. Which of the following numbers comes in the middle in Step II?

- A. 56 B. 40 C. 48 D. 74 E. None of these

157. Which of the following numbers is not present in Step IV?

- A. 15 B. 12 C. 30 D. 16 E. All are present

158. On which step we get the output: '30 12 12 18 15' ?

- A. Step I B. Step II C. Step III D. Can't be determined E. None of these

159. What is the position of 24 in Step II?

- A. 3rd from the left end B. Exactly in the middle of all the numbers C. 3rd from the right end
D. 2nd to the right of 28 E. None of these

160. If the number '40' in Step II is replaced by 47, what will it become in Step III applying the same rule as given in illustration?

- A. 33 B. 30 C. 54 D. 39 E. None of these



Set – 33

Directions: Study the following information carefully and answer the questions given beside.

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: toy for 35 27 61 97 weight stroke
Step I: 61 toy for 35 27 97 weight stroke
Step II: 61 35 toy for 27 97 weight stroke
Step III: 61 35 27 toy for 97 weight stroke
Step IV: 61 35 27 97 toy for weight stroke
Step V: 61 35 27 97 for toy weight stroke
Step VI: 61 35 27 97 for stroke toy weight

And Step VI is the last step of the rearrangement.

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: 73 jam trim 29 31 clear team 81

161. What will the position of '73' in step III of the given input?

- A. 3rd from the left B. 3rd from the right C. 5th to the left
D. 2nd to the right from 'jam' E. None of these

162. How many steps are required to complete the arrangement? (Input should not be counted)

- A. 3 B. 4 C. 5 D. 6 E. None of these

163. Which will be the 4th term from the left end in step IV?

- A. 81 B. Clear C. 31 D. Jam E. None of these

164. Had the term '31' been replaced by '39' in the given input, what will be the position of the term '39' in step I?

- A. 2nd from the left end B. 3rd from the right end C. 4th to the left of 29
D. Can't be determined E. None of these

165. Which of the following statements is true?

- A. 'jam' is 4th from the left end in step I. B. '81' is 7th from the right end in step II.
C. '29' is 5th from the left end in step V. D. 'trim' is 3rd from the right end in step IV.
E. All are false

Set – 34

Directions: When a word and number arrangement machine is given an input line of words and numbers, it rearranges them following a particular logic at each step. Below given is an illustration of the same.

Input: grief 37 myth 84 rubbish 53 constant 45 persistence 26
Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45
Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45
Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53
Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84
Step V: grief 84 myth 53 rubbish 45 constant 37 persistence 26

Step V is the last step of the arrangement.

On the basis of above illustration find the various steps of arrangement for the input given below.

Input: label 51 rhythm 22 sabotage 82 complete 91 sufficiency 16

166. What is the position of 'sabotage' with respect to '91' in step V?

- A. Second to the left B. Immediate right C. Second to the right D. Third to the left E. None of these

167. Which of the following is step IV?

- A. complete 51 rhythm 22 sufficiency 16 sabotage 82 label 91
B. sabotage 82 rhythm 22 sufficiency 16 complete 51 label 91
C. sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91
D. sabotage 82 51 complete rhythm 22 sufficiency 16 label 91
E. None of these

168. Which of the following comes exactly between 'complete' and 'sufficiency' in step III?

- A. Both rhythm and 22 B. rhythm C. 22 D. 51 E. All of these



169. How many words are to the left of 51 in step II?

- A. 3 B. 5 C. 4 D. 2 E. None of these

170. What is the sum of the even numbers that come between 'label' and 'sufficiency' in step V?

- A. 223 B. 195 C. 173 D. 104 E. 130

Set – 35

Directions: When a word and number arrangement machine is given an input line of words and numbers, it rearranges them following a particular logic at each step. Below given is an illustration of the same.

Input: grief 37 myth 84 rubbish 53 constant 45 persistence 26

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Step V: grief 84 myth 53 rubbish 45 constant 37 persistence 26

Step V is the last step of the arrangement.

On the basis of above illustration find the various steps of arrangement for the input given below.

Input: label 51 rhythm 22 sabotage 82 complete 91 sufficiency 16

171. What is the position of 'sabotage' with respect to '91' in step V?

- A. Second to the left B. Immediate right C. Second to the right D. Third to the left E. None of these

172. Which of the following is step IV?

- A. complete 51 rhythm 22 sufficiency 16 sabotage 82 label 91
B. sabotage 82 rhythm 22 sufficiency 16 complete 51 label 91
C. sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91
D. sabotage 82 51 complete rhythm 22 sufficiency 16 label 91
E. None of these

173. Which of the following comes exactly between 'complete' and 'sufficiency' in step III?

- A. Both rhythm and 22 B. rhythm C. 22 D. 51 E. All of these

174. How many words are to the left of 51 in step II?

- A. 3 B. 5 C. 4 D. 2 E. None of these

175. What is the sum of the even numbers that come between 'label' and 'sufficiency' in step V?

- A. 223 B. 195 C. 173 D. 104 E. 130

Set – 36

Directions: A word and number arrangement machine when given an input line of word arranges them following a unique logic/mathematical operation at each step. The following is an illustration of the input and various steps to obtain the output.

Input : floating current boat swing stream and sail along

Step I : 16 14 8 10 12 6 8 10

Step II : 28 20 16 20

Step III: 8 4

Step IV: 4

Step IV is the final output.

Find the final output and various steps for the following input.

Input: season come and go weather remain same forever

176. Which of the following values is the third multiple of the final output?

- A. 12 B. 15 C. 9 D. 6 E. None of these

177. Four of the following five are alike in a way and thus form a group. Which of the following does not belong to that group?

- A. 12 B. 13 C. 14 D. 20 E. 18



178. If in the given input 'and' is replaced by 'but', then which of the following value will change?

- A. 8 B. 4 C. 6 D. No change will happen E. None of these

179. What would be the resultant if second value from right end in step I is added with the second value from right end in step III?

- A. 14 B. 19 C. 20 D. 15 E. None of these

180. Find the values of step II, if the value of final output is subtracted from each number of step II?

- A. 29 23 17 21 B. 25 23 11 15 C. 23 17 11 15 D. 22 18 10 16 E. None of these

Set – 37

Directions: Study the following information carefully to answer the these questions.

A word arrangement machine, when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the steps of rearrangement.

Input	:	Go	for	to	Though	By	easy	To	Access	at
Step I	:	Access	Go	for	to	Though	By	easy	To	at
Step II	:	Access	at	Go	for	to	Though	By	easy	To
Step III	:	Access	at	By	Go	for	to	Though	easy	To
Step VI	:	Access	at	By	easy	Go	for	to	Though	To
Step V	:	Access	at	By	easy	for	Go	to	Though	To
Step VI	:	Access	at	By	easy	for	Go	Though	to	To
Step VII	:	Access	at	By	easy	for	Go	Though	To	to

And Step VII is the last step for this input

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

181. Input : story For around on was He at
Which of the following will be step IV for the given input?

- A. around at For He on was story B. around at For He on story was
C. around at For He story on was D. around at He For story on was
E. None of these

182. Input : every and peer to an for

Which of the following steps would be 'an and every for peer to' ?

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

183. Input : Together over series on feast the so

Which of the following steps will be the last but one?

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

184. Input : Over Go For through at one

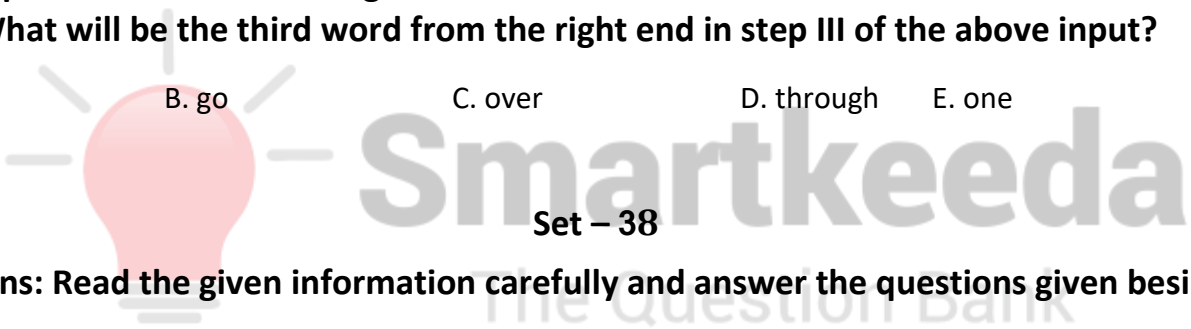
Which step will be the last step of the above input?

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

185. Input : Over Go For through at one

What will be the third word from the right end in step III of the above input?

- A. for B. go C. over D. through E. one



Set – 38

Directions: Read the given information carefully and answer the questions given beside:

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 : goal 63 57 home five task 82 17
Step I : 82 goal 63 57 home five task 17
Step II : 82 five goal 63 57 home task 17
Step III : 82 five 63 goal 57 home task 17
Step IV : 82 five 63 goal 57 home 17 task

Step IV is the last output.

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



186. Input : host 15 32 page 43 over mother 92

Which of the following step will be the last but one?

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

187. Step II of an input is : 67 cat 12 25 dog fight man 42

Which of the following will be step V?

- A. 67 cat 42 dog 25 fight 12 man B. 67 cat 42 dog 25 12 fight man
C. 67 cat 42 dog 12 25 fight man D. 67 cat 42 12 25 dog fight man
E. None of these

188. Which of the following will be step V for the above input?

Input : world 23 new 47 major 13 62 desk

- A. 62 desk 47 major world 23 new 13 B. 62 desk 47 world 23 new major 13
C. 62 desk 47 major 23 world new 13 D. 62 desk 47 major 23 new world 13
E. None of these

189. How many more steps are required to complete the rearrangement?

Step III of an input is : 81 boat 73 wheel spike dancer 32 59

- A. Two B. Three C. Four D. Five E. None of these

190. Which of the following step is the 6th step of the input if the 3rd step is:

Step III of an input is : 81 boat 73 wheel spike dancer 32 59

- A. 81 boat 73 dancer wheel spike 32 59 B. 81 boat 73 dancer 59 spike wheel 32
C. 81 boat 73 dancer 59 spike 32 wheel D. 81 boat 73 dancer 59 wheel spike 32
E. None of these



Set – 39

Directions: Study of the following information and answer the question given below it:

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	:	quick	fire	15	28	39	war	19	yellow
Step I	:	yellow	quick	fire	15	28	39	war	19
Step II	:	yellow	15	quick	fire	28	39	war	19
Step III	:	yellow	15	war	quick	fire	28	39	19
Step IV	:	yellow	15	war	19	quick	fire	28	39
Step V	:	yellow	15	war	19	quick	28	fire	39

And Step V is the step of the above input.

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

191. Step II an input is: zebra 12 bank carriage 46 31 29 dusk
Which of the following steps will be the last but one?

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

192. Input : age die 72 53 35 hold goal 26
How many steps will be required to complete the rearrangement?

- A. Four B. Five C. Six D. Seven E. None of these

193. Step II of an input is: win 12 92 for 81 always 36 home
Which of the following step will be step VII ?

- A. win 12 home 36 92 for 81 always B. win 12 home 36 for 92 always 81
C. win 12 home 92 for 81 always 36 D. There will be no step VII E. None of these

194. Step III of an input is: train 23 star 61 32 fall hard 53
Which of the following is definitely the input?

- A. 23 star 61 train 32 fall hard 53 B. star train 61 23 32 fall hard 53
C. 61 star 23 train 32 fall hard 53 D. Can't be determined E. None of these



195. Input: 36 Sky 19 Night 90 55 Bear Lotus White

What is the third element from the right end in step III and second element from the left end in step V respectively?

A. 55 - 19

B. White - 19

C. Bear – white

D. Sky – 90

E. 19 – 55

Set – 40

Direction: Study the following information carefully and answer the questions given below.

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 various steps rearrangement.

(All the numbers are two digit numbers).

Input	:	11	day	34	night	93	pace	27	easy	44	joy
Step I	:	93	11	day	34	night	pace	27	easy	44	joy
Step II	:	93	11	34	night	pace	27	easy	44	joy	day
Step III	:	93	44	11	34	night	pace	27	easy	joy	day
Step IV	:	93	44	11	34	night	pace	27	joy	day	easy
Step V	:	93	44	34	11	night	pace	27	joy	day	easy
Step VI	:	93	44	34	11	night	pace	27	day	easy	joy
Step VII	:	93	44	34	27	11	night	pace	day	easy	joy
Step VIII	:	93	44	34	27	11	pace	day	easy	joy	night
Step IX	:	93	44	34	27	11	day	easy	joy	night	pace

And Step IX is the last step of the rearrangement as the desired arrangement is obtained. As per rules followed in the above steps, find out in each of the questions the appropriate step for the given input.

Input for the questions:

class 25 war 15 race 73 heap 58 just 88 take 38



196. What is the position of 'war' in the Step 'VII'?

- A. Seventh from the left end B. Eighth from the right end C. Fifth from the left end
D. Fifth from the right end E. Sixth from the left end

197. Which of the following is the ninth from the right in Step VI?

- A. race B. 25 C. war D. 58 E. 15

198. What is the position of '15' in the Step 'IX'?

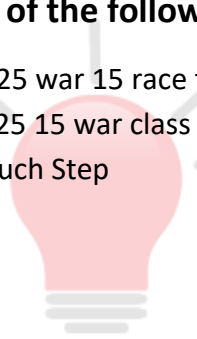
- A. Seventh from the left end B. Eighth from the left end C. Fifth from the right end
D. Seventh from the right end E. Eighth from the right end

199. How many Steps are required to complete this arrangement?

- A. Eleven B. Twelve C. Ten D. Nine E. None of these

200. Which of the following represents the Step X?

- A. 88 73 58 38 25 war 15 race take class heap just B. 88 73 58 38 25 15 class heap just race take war
C. 88 73 58 38 25 15 war class heap just race take D. 88 73 58 38 25 15 war take class heap just race
E. There is no such Step



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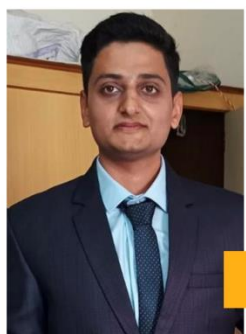
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CORRECT ANSWERS:

1	2	3	4	5	6	7	8	9	10
B	E	A	D	C	B	E	A	D	C
11	12	13	14	15	16	17	18	19	20
B	D	C	C	C	C	D	C	C	D
21	22	23	24	25	26	27	28	29	30
B	C	A	B	D	B	C	E	A	D
31	32	33	34	35	36	37	38	39	40
C	A	C	D	B	D	C	A	B	C
41	42	43	44	45	46	47	48	49	50
B	C	B	C	D	D	B	C	A	D
51	52	53	54	55	56	57	58	59	60
B	C	A	B	E	B	C	C	B	D
61	62	63	64	65	66	67	68	69	70
C	D	A	B	C	B	C	D	A	B
71	72	73	74	75	76	77	78	79	80
B	C	E	A	B	B	C	E	B	B
81	82	83	84	85	86	87	88	89	90
E	A	B	D	C	E	B	D	C	A
91	92	93	94	95	96	97	98	99	100
B	C	B	A	B	D	B	E	D	A
101	102	103	104	105	106	107	108	109	110
C	D	A	E	B	A	A	B	D	C
111	112	113	114	115	116	117	118	119	120
D	C	E	B	A	A	E	B	D	C
121	121	121	121	121	121	121	121	121	121
E	A	B	D	C	C	A	D	D	A
131	132	133	134	135	136	137	138	139	140
B	D	A	C	A	C	B	D	A	D
141	142	143	144	145	146	147	148	149	150
C	D	B	C	B	C	B	D	B	C
151	152	153	154	155	156	157	158	159	160
B	D	C	A	B	B	D	C	E	A
161	162	163	164	165	166	167	168	169	170
A	C	E	B	B	B	C	B	A	D
171	172	173	174	175	176	177	178	179	180
B	C	B	A	D	C	B	D	A	C
181	182	183	184	185	186	187	188	189	190
C	B	D	E	C	A	B	C	C	B
191	192	193	194	195	196	197	198	199	200
A	C	E	D	A	E	B	D	A	C

Explanations:

1. The numbers are arranged in ascending order stepwise from left to right, rearranging only one number at each step - one number from the beginning and one number from the end, alternately.

Input : 68 182 39 93 129 46 21 58
Step I : 21 68 182 39 93 129 46 58
Step II : 21 68 39 93 129 46 58 182
Step III: 21 39 68 93 129 46 58 182

Hence, Option B is correct.

2. Since the number may be rearranged in several possible ways, so it is not possible to determine any of the previous steps.

Hence, Option E is correct.

3. Clearly, the last step would be the one containing the whole set of numbers in an ascending order from left to right

Hence, Option A is correct.

- 4.

Input : 101 85 66 49 73 39 142 25 115 74
Step I : 25 101 85 66 49 73 39 142 115 74
Step II : 25 101 85 66 49 73 39 115 74 142
Step III : 25 39 101 85 66 49 73 115 74 142
Step IV : 25 39 101 85 66 49 73 74 115 142
Step V : 25 39 49 101 85 66 73 74 115 142
Step VI : 25 39 49 85 66 73 74 101 115 142
Step VII : 25 39 49 66 85 73 74 101 115 142
Step VIII: 25 39 49 66 73 74 85 101 115 142

Hence, Option D is correct.

- 5.

Input : 67 23 58 159 46 123 74
Step I : 23 67 58 159 46 123 74
Step II : 23 67 58 46 123 74 159
Step III: 23 46 67 58 123 74 159

Hence, Option C is correct.

6. The numbers are arranged in ascending order stepwise from left to right, rearranging only one number at each step - one number from the beginning and one number from the end, alternately.

Input	:	68	182	39	93	129	46	21	58
Step I	:	21	68	182	39	93	129	46	58
Step II	:	21	68	39	93	129	46	58	182
Step III	:	21	39	68	93	129	46	58	182

7. Since the number may be rearranged in several possible ways, so it is not possible to determine any of the previous steps.

8. Clearly, the last step would be the one containing the whole set of numbers in an ascending order from left to right

9.

Input	:	101	85	66	49	73	39	142	25	115	74
Step I	:	25	101	85	66	49	73	39	142	115	74
Step II	:	25	101	85	66	49	73	39	115	74	142
Step III	:	25	39	101	85	66	49	73	115	74	142
Step IV	:	25	39	101	85	66	49	73	74	115	142
Step V	:	25	39	49	101	85	66	73	74	115	142
Step VI	:	25	39	49	85	66	73	74	101	115	142
Step VII	:	25	39	49	66	85	73	74	101	115	142
Step VIII	:	25	39	49	66	73	74	85	101	115	142

10.

Input	:	67	23	58	159	46	123	74
Step I	:	23	67	58	159	46	123	74
Step II	:	23	67	58	46	123	74	159
Step III	:	23	46	67	58	123	74	159



Common explanation:

After careful analysis of the given input and various steps of rearrangement, it is evident that a number is arranged along with a word in each step. As for numbers, the one the sum of the digits of which ($2+2 = 4$) is the lowest is placed on the extreme left while the word with maximum number of consonants (Number of consonants in Transformation = 9) is placed at the extreme right of step 1.

In the next step, the word which has the least number of consonants will come next to '22' and the number the sum of the digits of which ($5 + 7 = 12$) is the highest will take the place immediate left to the word 'Transformation'. But as we can observe that the number '57' is already placed right before the word 'Transformation' we will make the next change in the same step and that is to place the word with second maximum number of consonants (8 consonants in Disadvantageous) before the number '57'.

And so on.

Input :	Entertainment	25	Thankful	49	Congratulations	32	Ambulance	Anniversary	63	38
Step 1:	32	Entertainment	25	Thankful	49	Ambulance	Anniversary	63	38	Congratulations
Step 2:	32	Ambulance	Entertainment	25	Thankful	Anniversary	63	38	49	Congratulations
Step 3:	32	Ambulance	25	Thankful	Anniversary	63	38	Entertainment	49	Congratulations
Step 4:	32	Ambulance	25	Thankful	63	Anniversary	38	Entertainment	49	Congratulations

- 11.** It's evident from the common explanation, that 'Thankful' is Fourth from the left end. Hence option B is correct.
- 12.** Following the common explanation, we get that:

Third element to the right of the seventh element from the right end = $7\text{th} - 3\text{rd} = 4\text{th}$ element from right end in the second last step i.e. 38.
- 13.** Following the common explanation, we get that the arrangement will be completed in the 4th step.
- 14.** From the common explanation we can observe that third step will be the last but one.
- 15.** From the common explanation there are five elements between 'Ambulance' and 'Entertainment' in the second last step.

Common Explanations (16-20):

Changes happening with words:

In the given steps words are arranged in ascending order according to the number of letters they have. In each step only one word is arranged and getting placed to the immediate right of the word previously placed.

Changes happening in given numbers

In Step 1, both the digits of each of the numbers are made square and added to give the resultant number.

For instance, the number 05 from the Input will become in Step 1 = $(0^2 + 5^2) = 25$

In Step 2, the digits of each of the numbers are getting reversed.

For instance, the number 25 in Step 2 becomes 52.

In Step 3 and Step 4 the respective pattern of Step 1 and Step 2 is getting repeated.

In Step 5, the digits of each of the numbers are getting added and then the sum is added to 5 to give the resultant number.

For instance, sum of the digits of 92 = $9 + 2 = 11$, then $11 + 5 = 16$

In the final step, the numbers are arranged in their descending order.

Input:	in	believe	13	09	have	27	to	23	you	35	yourself
Step 1:	in	to	believe	10	81	have	53	13	you	34	yourself
Step 2:	in	to	you	believe	01	18	have	35	31	43	yourself
Step 3:	in	to	you	have	believe	01	65	34	10	25	yourself
Step 4:	in	to	you	have	believe	yourself	10	56	43	01	52
Step 5:	in	to	you	have	believe	yourself	06	16	12	06	12
Step 6:	in	to	you	have	believe	yourself	16	12	12	06	06

- 16.** Following the common explanation, we get that:
Third element to the right of the sixth element from the right end = $6\text{th} - 3\text{rd} = 3\text{th}$ element from right end in the second last step i.e. 12.
Hence, option C is correct.
- 17.** Following the common explanation, we get that
the arrangement will be completed in the 6th step.
Hence, option D is correct.
- 18.** Following the common explanation, we get that
Sum of numbers in step 4 $(10 + 56 + 43 + 01 + 52) = 162$.
Hence, option C is correct.
- 19.** It's evident from the common explanation, that 'Believe' is at seventh position from the right end.
Hence option C is correct.
- 20.** From the common explanation we can observe that the step 5 will be the last but one.
Hence, option D is correct.

Common Explanations (21-25):

Final Output-

Input : vast 78 code 47 bill 29 flat 38 like 25 upper 69

Step 1 : 79 bill vast code 47 29 flat 38 like 25 upper 69

Step 2 : 68 code 79 bill vast 47 29 flat 38 like 25 upper

Step 3 : 46 flat 68 code 79 bill vast 29 38 like 25 upper

Step 4 : 39 like 46 flat 68 code 79 bill vast 29 25 upper

Step 5 : 28 upper 39 like 46 flat 68 code 79 bill vast 25

Step 6 : 24 vast 28 upper 39 like 46 flat 68 code 79 bill

Change in word: The words are placed at the extreme left end as they appear in the dictionary i.e. the word that appears first in the dictionary will come first to the extreme left end of the step.

Change in number: The numbers are considered as per the descending order i.e. the greatest number is chosen first and if it is an even number then 1 is added to that otherwise 1 is deducted from it and placed at the extreme left end.

The operation is performed first on words and then on numbers but within the same step.

Reference:

Input: sell 11 keep 23 day 63 small 49 clock 58 pain 88

Step 1 89 clock sell 11 keep 23 day 63 small 49 58 pain

Inference:

As the greatest number here is 78 which is even so it will become 79 in step 1 and 'bill' will come first as per dictionary order, so it will be placed as follows.

Input: vast 78 code 47 bill 29 flat 38 like 25 upper 69

Step 1 79 bill vast code 47 29 flat 38 like 25 upper 69

Reference:

Step 1 89 clock sell 11 keep 23 day 63 small 49 58 pain

Step 2 62 day 89 clock sell 11 keep 23 small 49 58 pain

Inference:

As the second greatest number here is 69 which is odd so it will become 68 in step 2 and 'code' will come second as per dictionary order, so it will be placed as follows.

Step 1 79 bill vast code 47 29 flat 38 like 25 upper 69

Step 2 68 code 79 bill vast 47 29 flat 38 like 25 upper

Reference:

Step 2 62 day 89 clock sell 11 keep 23 small 49 58 pain

Step 3 59 keep 62 day 89 clock sell 11 23 small 49 pain

Inference:

As the third greatest number here is 47 which is odd so it will become 46 in step 3 and 'flat' will come third as per dictionary order, so it will be placed as follows.

Step 2 68 code 79 bill vast 47 29 flat 38 like 25 upper

Step 3 46 flat 68 code 79 bill vast 29 38 like 25 upper

Reference:

Step 3 59 keep 62 day 89 clock sell 11 23 small 49 pain

Step 4 48 pain 59 keep 62 day 89 clock sell 11 23 small

Inference:

As the fourth greatest number here is 38 which is even so it will become 39 in step 4 and 'like' will come fourth as per dictionary order, so it will be placed as follows.

Step 3 46 flat 68 code 79 bill vast 29 38 like 25 upper

Step 4 39 like 46 flat 68 code 79 bill vast 29 25 upper

Reference:

Step 4 48 pain 59 keep 62 day 89 clock sell 11 23 small

Step 5 22 sell 48 pain 59 keep 62 day 89 clock 11 small

Inference:

As the fifth greatest number here is 29 which is odd so it will become 28 in step 5 and 'upper' will come fifth as per dictionary order, so it will be placed as follows.

Step 4 39 like 46 flat 68 code 79 bill vast 29 25 upper

Step 5 28 upper 39 like 46 flat 68 code 79 bill vast 25

Reference:

Step 5 22 sell 48 pain 59 keep 62 day 89 clock 11 small

Step 6 10 small 22 sell 48 pain 59 keep 62 day 89 clock

Inference:

As the smallest number here is 25 which is odd so it will become 24 in step 6 and 'vast' will come sixth as per dictionary order, so it will be placed as follows.

Step 5 28 upper 39 like 46 flat 68 code 79 bill vast 25

Step 6 24 vast 28 upper 39 like 46 flat 68 code 79 bill



21. From the common explanation it is clear that 68 is exactly in the middle of like and bill in step 4.

"like 46 flat **68** code 79 **bill**"

Hence option B is the correct answer.

22. From the common explanation it is clear that "29 38 like" is seen in the same sequence in step 3.

Hence option C is the correct answer.

23. From the common explanation it is clear that in step 5 the eight element from right end is "46" and third to the left of 46 is "upper".

Hence option A is the correct answer.

24. From the common explanation it is clear that "68 code 79 bill vast 47 29 flat 38 like 25 upper" is the step 2 of final output.

Hence option B is the correct answer.

25. From the common explanation it is clear that the sum of odd numbers in step 6 is 118 (39 + 79) and the sum of even numbers in the same step is 166 (24 + 28 + 46 + 68)

The required difference = $166 - 118 = 48$

Hence option D is the correct answer.



Common explanation: (Q. 26 to Q. 30)

Each step is obtained by applying an **operation different from the previous step**.

Reference:

Input: glory gained through resolving conflict between these personalities

Step1: 8 6 10 12 12 8 6 14

Inference:

Here the operation performed is : **Multiplication**.

Here, the conversion of letters to numbers is done by doubling the number of consonants of each word. The numbers are to be written in the same order in which their respective words are written in the input.

Following the same logic, we can easily find the values of step 1.

- For 'result' number of consonants are 4 so its respective number becomes $8.(4 \times 2)$
- For 'melting', number of consonants are 5 so its respective number becomes $10.(5 \times 2)$

Input: decreasing glaciers result from the melting snow valley

Step1: 12 10 8 6 4 10 6 8

Reference:

Step1: 8 6 10 12 12 8 6 14

Step2: 2 2 4 8

Inference:

Here the mathematical operation performed is : **Subtraction**.

- To obtain the first value of step 2, difference of first and second numbers (from left end) is taken.
- To get the second value of step 2, difference of third and fourth numbers is taken.
- To acquire the third value of step 2, difference of fifth and sixth numbers is taken.
- To identify the fourth value of step 2, difference of seventh and eighth numbers is taken.

Following the same logic, we can easily find the values of step 2.

Step1: 12 10 8 6 4 10 6 8

Step2: 2 2 6 2

Reference:

Step2: 2 2 4 8

Step3: 2 4

Inference:

Here the operation performed is : **Division**.

First value of step 3 is obtained by taking the division of first and third numbers from left end.

Second value of step 3 is obtained by taking the division of second and fourth numbers from left end.

Note- The greater number is divided by the smaller number.

Following the same logic, we can easily find the values of step 3.

Step2: 2 2 6 2

Step3: 3 1

Reference:

Step3: 2 4

Step4: 10

Inference:

Here the operation performed is : **Addition.**

Sum of both the numbers of step 3 is taken and greater number is further added to this sum to obtain the value of step 4.

Following the same logic, the value of step 4 is $3 + 1 = 4$, greater number here is 3, so $4 + 3 = 7$.

Step3: 3 1

Step4: 7

Final Output:

Input: decreasing glaciers result from the melting snow valley

Step1: 12 10 8 6 4 10 6 8

Step2: 2 2 6 2

Step3: 3 1

Step4: 7

26. From the following explanation it is clear that the final output is 7 and cube of which is 343.

Hence, option B is the correct answer.

27. From the following explanation it is clear that the numeric code for 'melting' is 10.

Hence, option C is the correct answer.

28. From the following explanation it is clear that unlike other values, 16 is not among the values given in various steps of output.

Hence, option E is the correct answer.

29. From the following explanation it is clear that code for snow glaciers is 6 and 10 respectively.

Hence, option A is the correct answer.

30. From the following explanation it is clear that the sum of numbers of step 2 is $2 + 2 + 6 + 2 = 12$.

sum of numbers of step 3 is $3 + 1 = 4$.

Required difference = $12 - 4 = 8$.

Hence, option D is the correct answer.



Common Explanations (31-35):

Final Output-

Input: dream 25 dare 64 enjoy 18 smile 23 spread 47 joy 70
Step 1 47 dream 25 64 enjoy 18 smile 23 spread joy 70 dare
Step 2 64 47 25 enjoy 18 smile 23 spread joy 70 dare dream
Step 3 25 64 47 18 smile 23 spread joy 70 dare dream enjoy
Step 4 18 25 64 47 smile 23 spread 70 dare dream enjoy joy
Step 5 23 18 25 64 47 spread 70 dare dream enjoy joy smile
Step 6 70 23 18 25 64 47 dare dream enjoy joy smile spread

Change in word: The words are placed at the extreme right end as they appear in the dictionary i.e. the word that appears first in the dictionary will come first to the extreme left end of the step, then comes the second word as per dictionary order to the extreme right end and so on.

Change in number: The numbers are considered as per the product of their digits. The number with the highest product is chosen first and placed at the extreme left end, then the number with the second highest product is taken and placed at extreme left end and so on.

The operation is performed first on words and then on numbers but within the same step.

Reference:

Input: live 26 life 19 king 38 size 42 aim 67 my 71
Step 1 67 live 26 life 19 king 38 size 42 my 71 aim

Inference:

As the number with the highest product here is 47 so it will come to the extreme left end in step 1 and 'dare' will come first as per dictionary order, so it will be placed at extreme right end.

Input: dream 25 dare 64 enjoy 18 smile 23 spread 47 joy 70
Step 1 47 dream 25 64 enjoy 18 smile 23 spread joy 70 dare

Reference:

Step 1 67 live 26 life 19 king 38 size 42 my 71 aim
Step 2 38 67 live 26 life 19 size 42 my 71 aim king

Inference:

As the number with second highest product here is 64 so it will come to the extreme left end in step 2 and 'dream' will come second as per dictionary order, so it will be placed at extreme right end.

Step 1 47 dream 25 64 enjoy 18 smile 23 spread joy 70 dare
Step 2 64 47 25 enjoy 18 smile 23 spread joy 70 dare dream

Reference:

Step 2 38 67 live 26 life 19 size 42 my 71 aim king
Step 3 26 38 67 live 19 size 42 my 71 aim king life

Inference:

As the number with third highest product here is 25 so it will come to the extreme left end in step 3 and 'enjoy' will come fourth as per dictionary order, so it will be placed at extreme right end.

Step 2 64 47 25 enjoy 18 smile 23 spread joy 70 dare dream

Step 3 25 64 47 18 smile 23 spread joy 70 dare dream enjoy

Reference:

Step 3 26 38 67 live 19 size 42 my 71 aim king life

Step 4 19 26 38 67 size 42 my 71 aim king life live

Inference:

As the number with fourth highest product here is 18 so it will come to the extreme left end in step 4 and 'joy' will come fourth as per dictionary order, so it will be placed at extreme right end.

Step 3 25 64 47 18 smile 23 spread joy 70 dare dream enjoy

Step 4 18 25 64 47 smile 23 spread 70 dare dream enjoy joy

Reference:

Step 4 19 26 38 67 size 42 my 71 aim king life live

Step 5 42 19 26 38 67 size 71 aim king life live my

Inference:

As the number with fifth highest product here is 23 so it will come to the extreme left end in step 5 and 'smile' will come fifth as per dictionary order, so it will be placed at extreme right end.

Step 4 18 25 64 47 smile 23 spread 70 dare dream enjoy joy

Step 5 23 18 25 64 47 spread 70 dare dream enjoy joy smile

Reference:

Step 5 42 19 26 38 67 size 71 aim king life live my

Step 6 71 42 19 26 38 67 aim king life live my size

Inference:

As the number with the least product here is 70 so it will come to the extreme left end in step 6 and 'spread' will come sixth as per dictionary order, so it will be placed at extreme right end.

Step 5 23 18 25 64 47 spread 70 dare dream enjoy joy smile

Step 6 70 23 18 25 64 47 dare dream enjoy joy smile spread



31. From the common explanation it is clear that 18 is second to the left of fourth to the right of '64' in step 1.

Step 1 47 dream 25 64 enjoy 18 smile 23 spread joy 70 dare

Hence option C is the correct answer.

32. From the common explanation it is clear that 64 is third to the left of fifth element from the right end in step 6.

Step 6 70 23 18 25 64 47 dare dream enjoy joy smile spread

Hence option A is the correct answer.

33. From the following explanation it is clear that the given step is step 3 of the input.

Hence option C is correct.

34. From the common explanation it is clear that "spread 70 dare" is seen for the first time in the same sequence in step 4.

Step 4 18 25 64 47 smile 23 spread 70 dare dream enjoy joy

Hence option D is the correct answer.

35. From the following explanation it is clear that dare is exactly between '47' and 'joy' in step 5.

Step 5 23 18 25 64 47 spread 70 dare dream enjoy joy smile

Hence option B is correct.



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Common Explanations (36-40):

The given output is obtained by following the below mentioned logic.

Change in Word- The words are arranged to the left most end of each step on the basis of number of vowels in the word. The word having highest number of vowels is considered first for the rearrangement. If more than one word is having same number of vowels, then the preference will be given to the word that comes first as per the dictionary order.

Change in Number- The number is placed in lowest to highest order after the word at extreme left end. First the lowest number is placed then the second highest and then so on.

Note- Changes in word and number takes place simultaneously at each step. Numbers are placed immediately after the word.

Reference:

Input : tension 26 releases 18 because 71 you 5 watch movies 61 24

Step 1: because 5 tension 26 releases 18 71 you watch movies 61 24

S. No.	Word	No. of vowels	Order of preference
1	tension	3	4th
2	releases	4	2nd
3	because	4	1st
4	you	2	5th
5	watch	1	6th
6	movies	3	3rd

Inference:

On the basis of our reference and logic following tables shows the order of preference of words and numbers are arranged as per ascending order i.e. lowest to highest.

S. No.	Word	No. of vowels	Order of preference
1	calcium	3	1st
2	makes	2	3rd
3	body	1	5th
4	more	2	4th
5	strong	1	6th
6	glowing	2	2nd

Input : calcium 47 makes 56 body 70 more 21 strong glowing 92 10

Step 1 :calcium 10 47 makes 56 body 70 more 21 strong glowing 92

Reference:

Step 1: because 5 tension 26 releases 18 71 you watch movies 61 24

Step 2: releases 18 because 5 tension 26 71 you watch movies 61 24



Inference:

As per the above mentioned logic, arrangement looks like as follows-

Step 1 : calcium 10 47 makes 56 body 70 more 21 strong glowing 92

Step 2 : glowing 21 calcium 10 47 makes 56 body 70 more strong 92

Reference:

Step 2: releases 18 because 5 tension 26 71 you watch movies 61 24

Step 3: movies 24 releases 18 because 5 tension 26 71 you watch 61

Inference:

As per the above mentioned logic, arrangement looks like as follows-

Step 2 : glowing 21 calcium 10 47 makes 56 body 70 more strong 92

Step 3 : makes 47 glowing 21 calcium 10 56 body 70 more strong 92

Reference:

Step 3: movies 24 releases 18 because 5 tension 26 71 you watch 61

Step 4: tension 26 movies 24 releases 18 because 5 71 you watch 61

Inference:

As per the above mentioned logic, arrangement looks like as follows-

Step 3 : makes 47 glowing 21 calcium 10 56 body 70 more strong 92

Step 4 : more 56 makes 47 glowing 21 calcium 10 body 70 strong 92

Reference:

Step 4: tension 26 movies 24 releases 18 because 5 71 you watch 61

Step 5: you 61 tension 26 movies 24 releases 18 because 5 71 watch

Inference:

As per the above mentioned logic, arrangement looks like as follows-

Step 4 :more 56 makes 47 glowing 21 calcium 10 body 70 strong 92

Step 5 :body 70 more 56 makes 47 glowing 21 calcium 10 strong 92

Reference:

Step 5: you 61 tension 26 movies 24 releases 18 because 5 71 watch

Step 6: watch 71 you 61 tension 26 movies 24 releases 18 because 5

Inference:

As per the above mentioned logic, arrangement looks like as follows-

Step 5 :body 70 more 56 makes 47 glowing 21 calcium 10 strong 92

Step 6: strong 92 body 70 more 56 makes 47 glowing 21 calcium 10



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36. From the following explanation we get to know that the numbers between 'glowing' and 'makes' in step 2 are 21,10 and 47.

Required average = $(21 + 10 + 47)/3 = 26$.

Step 2 : glowing 21 calcium 10 47 makes 56 body 70 more strong 92

Hence option D is the correct answer.

37. From the following explanation we get to know that "makes 47 glowing 21 calcium 10 56 body 70 more strong 92" is step 3.

Step 3 :makes 47 glowing 21 calcium 10 56 body 70 more strong 92

Hence option C is the correct answer.

38. From the following explanation we get to know that in step 6,the number sixth from the left end is 56 and third from the right end is 21.

Required sum = $56 + 21 = 77$

Hence option A is the correct answer.

39. From the following explanation we get to know that in step 3 "body" is third to the right of fifth to the left of 'more'.

Step 3 :makes 47 glowing 21 calcium 10 56 body 70 more strong 92

Hence option B is the correct answer.

40. From the following explanation we get to know that in step 4 "56 makes 47" is seen in the same sequence for the first time.

Step 4 :more 56 makes 47 glowing 21 calcium 10 body 70 strong 92

Hence option C is the correct answer.



Common explanation : (Q. 41 to Q. 45)

Change happening from Input to Step 1:

Reference:

Input: 62 97 38 74 55 12 86 45 68 22

Step 1: 13 62 97 38 74 55 86 45 68 23

Inference:

In every step, two numbers are changing their positions. In input, the lowest number which is 12, is first added by 1 and getting placed at extreme left end. Similarly, the second lowest number among all, which is 22 is also getting increased by 1 and is getting placed at the extreme right end of the input to give us Step 1.

Given Input: 88 59 28 94 37 75 15 64 71 48

Step1: 16 88 59 94 37 75 64 71 48 29

Reference

Step 1: 13 62 97 38 74 55 86 45 68 23

Step 2: 39 13 62 97 74 55 86 68 23 46

Inference:

In this step too, the 3rd lowest number among all is first getting increased by 1 and is placed at the extreme left end of Step 1 and so is the case with the 4th lowest number.

Step1: 16 88 59 94 37 75 64 71 48 29

Step2: 38 16 88 59 94 75 64 71 29 49

And the same process continues till we get all the numbers arranged in similar fashion.

The complete Machine process is as follows:

Input: 88 59 28 94 37 75 15 64 71 48

Step1: 16 88 59 94 37 75 64 71 48 29

Step2: 38 16 88 59 94 75 64 71 29 49

Step3: 60 38 16 88 94 75 71 29 49 65

Step4: 72 60 38 16 88 94 29 49 65 76

Step5: 89 72 60 38 16 29 49 65 76 95



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41. From the following explanation we get to know that 38 is fifth to the left of 49 in step 4.

Step 4: 72 60 38 16 88 94 29 49 65 76

Hence option B is the correct answer.

42. From the following explanation we get to know that more than four numbers are between the one which is 3rd from the right end and 38 in step 3.

Step 3: 60 38 16 88 94 75 71 29 49 65

Hence, option C is correct.

43. Clearly, there are two numbers between '16' which is 4th to the left of 76 and 72 in step 5.

Step 5: 89 72 60 38 16 29 49 65 76 95

Hence, option B is correct.

44. 2nd last step: Step4: 72 60 38 16 88 94 29 49 65 76

Evidently, 88 is on the 6th position from the right end in 2nd last step.

Hence, option C is correct.

45. Step 5: 89 72 60 38 16 29 49 65 76 95

Clearly, '49' is the number which is 7th from the left end in Step 5 of the machine output process.

Hence, option D is correct.



Common Explanations (46-50):

Reference:

Input: nature create nothing useless without purpose

Step I: aceert aenrtu eelsssu eopprsu ghinnot hiottuw

Inference:

In the Step I, firstly the letters within each word are arranged in alphabetical order on the left of each word of given Input after that the words thus formed are arranged according to dictionary from left to right.

For example:

The word 'imagine' after arranging the letters in alphabetical order becomes 'aegiimn'.
Using the same rule Step I of the given Input can be written as:

Input: imagine yourself trapped inside hellish nightmare

Step I: adeptprt aeghimnrt aegiimn deiins eflorsuy ehills

Reference:

Step II: 45 41 31 27 24 11

Inference:

In the Step II, the numeric position in alphabetic series of each vowel within each word in Step I is added and the numbers thus formed are arranged in decreasing order from left to right.

For example:

The vowels in word 'adeprt' are 'a' and 'e' and numeric position of 'a' and 'e' in alphabetic is '1' and '5' respectively so the number is $1 + 5 = 6$.

Using the same rule Step II of the given Input can be written as:

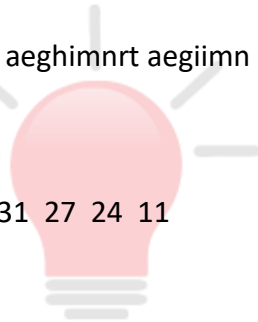
Step II: 41 24 23 15 14 6

Reference:

Step III: 8 8 26

Inference:

In the Step III, the difference of first and second number, third and fourth number, and fifth and sixth number from left end in Step II is taken and 2 is multiplied to each value that obtained.



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For example:

First and second numbers from left end in Step II are '41' and '24' respectively so the difference of '41' and '24' is 17 and when 17 is multiplied by 2 we get 34. So the number is 34.

Using the same rule Step III of the given Input can be written as:

Step III: 34 16 16

Reference:

Step IV: 16 52

Inference:

The first and second numbers from left end in Step III are added then subtracted and the values thus obtained are added to form the first number from left end in step IV. And the pattern is repeated with second and third number from left end in step III to form the second number from left end in step IV.

For example:

First and second numbers from left end in Step III are '34' and '16' respectively. The difference of '34' and '16' is 18 and the sum of the '34' and '16' is 50, while the sum of 18 and 50 is 68. So the number is 68.

Using the same rule Step IV of the given Input can be written as:

Step IV: 68 32

Reference:

Step V: 16

Inference:

In the Step V, the digits within each number of Step IV are multiplied and the numbers thus formed are added to form a single number.

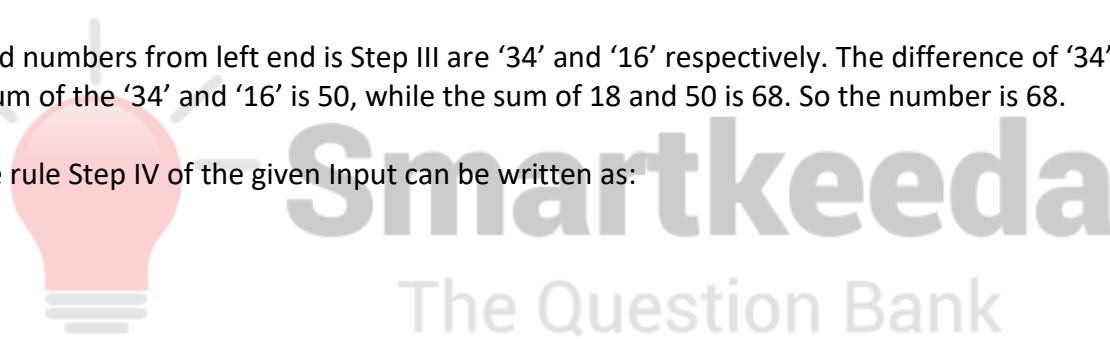
For example:

After multiplying the digits of the number 68 (6×8) we get 48 and the digits of the number 32 (3×2) we get 6. The sum of 48 and 6 is 54. So the number is 54.

Using the same rule Step V of the given Input can be written as:

Step V: 54

As it is given that Step V is the last step of the arrangement so the given input is completed.



46. Following the final solution we can say that 54 will be obtained in final step of the arrangement.

Hence, the correct answer is option D.

47. Following the final solution we can say that 'aeghinmrt' will not be in step I of the given arrangement.

Hence, the correct answer is option B.

48. Following the final solution, we can say the values that obtained in step III are 34, 16 and 16.

Required Sum = $34 + 16 + 16 = 66$

Hence, the correct answer is option C.

49. Following the final solution, we can say that 15 represents 'nightmare' in step II.

Hence, the correct answer is option A.

50. Following the final solution we can say that two prime numbers (41 and 23) are obtained in step II.

Hence, the correct answer is option D.



Common explanation : (Q. 51 to Q.55)

Change in Number: Change in numbers take place as per the ascending order of the difference of the digits of each number. The number whose difference of digits is the smallest is taken first for rearrangement and shifted at extreme left end.

Change in Word: Change in words take place as per the reverse alphabetical order. The word whose first letter comes last as per the English alphabetical series is taken first for rearrangement and shifted at the extreme right end.

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

The given pattern:

Input: hard 27 nut 14 impossible 54 to 86 crack 62

Step1:54 hard 27 nut 14 impossible 86 crack 62 to

Step2:86 54 hard 27 14 impossible crack 62 to nut

Step3:14 86 54 hard 27 crack 62 to nut impossible

Step4:62 14 86 54 27 crack to nut impossible hard

Step5:27 62 14 86 54 to nut impossible hard crack

Solution to the given input:

Input: deeds 39 for 96 humanity 75 give 27 pleasure 62

Step1:75 deeds 39 for 96 humanity give 27 62 pleasure

Step2:96 75 deeds 39 for give 27 62 pleasure humanity

Step3:62 96 75 deeds 39 for 27 pleasure humanity give

Step4:27 62 96 75 deeds 39 pleasure humanity give for

Step5:39 27 62 96 75 pleasure humanity give for deeds



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Final Output:

Input: deeds 39 for 96 humanity 75 give 27 pleasure 62

Step1:75 deeds 39 for 96 humanity give 27 62 pleasure

Step2:96 75 deeds 39 for give 27 62 pleasure humanity

Step3:62 96 75 deeds 39 for 27 pleasure humanity give

Step4:27 62 96 75 deeds 39 pleasure humanity give for

Step5:39 27 62 96 75 pleasure humanity give for deeds

51. From the following output it is clear that 75 is third to the left of fifth element from right end in step 3.

Hence option B is correct.

52. From the following output it is clear that "96-deeds" is the only pair where both the words are never seen adjacent in any of the steps.

for -27: adjacent in step 3

39-pleasure: adjacent in step 4

pleasure-75: adjacent in step 5.

pleasure-27: adjacent in step 3.

Hence option C is correct.

53. From the following output it is clear that 96 is seen exactly between 62 and 75 for the first time in step 1.

Step1:75 deeds 39 for 96 humanity give 27 62 pleasure

Hence option A is correct.

54. From the following output it is clear that humanity is second to the right of 39 in step 4.

Hence option B is correct.

55. From the following output it is clear that the sum of digits of the numbers which are second from the left end (96) and fourth from the right end (27) in step 3 are $9+6+2+7 = 24$.

Hence option E is correct.

Common Explanations (56-60):

Change in Number: Change in numbers take place as per the ascending order. If the number is odd then subtract 2 from it and shift it to the extreme left end. If number is even then add 2 to it and shift it to the extreme left end.

Change in Word: Change in words take place as per the ascending order of the number of vowels in each word. Words are shifted to the extreme right end.

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

The given pattern:

Input: developer 76 carpenter 53 duster 61 per 24 storekeeper 38

Step1: 26 developer 76 carpenter 53 duster 61 storekeeper 38 per

Step2: 40 26 developer 76 carpenter 53 61 storekeeper per duster

Step3: 51 40 26 developer 76 61 storekeeper per duster carpenter

Step4: 59 51 40 26 76 storekeeper per duster carpenter developer

Step5: 78 59 51 40 26 per duster carpenter developer storekeeper

Solution to the given input:

Input: flip 64 championship 37 internship 29 philip 71 companionship 55

Step1: 27 64 championship 37 internship philip 71 companionship 55 flip

Step2: 35 27 64 championship internship 71 companionship 55 flip philip

Step3: 53 35 27 64 championship 71 companionship flip philip internship

Step4: 66 53 35 27 71 companionship flip philip internship championship

Step5: 69 66 53 35 27 flip philip internship championship companionship

56. From the following output it is clear that 'internship 71' is seen in the same sequence for the first time in step 2.

Step2: 35 27 64 championship internship 71 companionship 55 flip philip

Hence option B is correct.

57. From the following output it is clear that there are 5 words to the right of 27 in step 4.

Step4: 66 53 35 27 71 companionship flip philip internship championship

Hence option C is correct.

58. From the following output it is clear that the highest number in step 3 is 71 and the lowest number in step 3 is 27.

Required difference = 44.

Step3: 53 35 27 64 championship 71 companionship flip philip internship

Hence option C is correct.

59. From the following output it is clear that 35 is fourth to the left of 'internship' in step 5.

Step5: 69 66 53 35 27 flip philip internship championship companionship

Hence option B is correct.

60. From the following output it is clear that 'companionship, 71 and 55' are between 'internship' and 'flip'.

Step2: 35 27 64 championship internship 71 companionship 55 flip philip

Hence option D is correct.



Common explanation : (61 - 65)

The given output is obtained by following the below mentioned logic:

Change in Word: Words are selected on the basis of decreasing order of number of vowels within a word i.e. The word with highest number of vowels is considered first, if there are more than one word with same number of vowels then preference is given to the word that comes first as per dictionary order. Words are placed at the left end.

Change in Number: Numbers are selected on the basis of descending order. If the number is an **even number** then change it by adding 2 to it and shift to the extreme left end. If the number is an **odd number** then change it by subtracting 2 from it and shift it to the extreme left end.

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

Reference:

Input :fire 76 for 53 fauna 14 favour 27 freedom 36

Step1:78 fauna fire for 53 14 favour 27 freedom 36

S.No.	Word	No. of vowels	Order of Preference	Number	Changed Number	Order of Preference
1	fire	2	4 th	76 - Even	78	2 nd
2	for	1	5 th	53 - Odd	51	1 st
3	fauna	3	1 st	14 - Even	16	3 rd
4	favour	3	2 nd	27 - Odd	25	5 th
5	freedom	3	3 rd	36 - Even	38	4 th

Inference:

On the basis of given logic following table is prepared which shows the changes in numbers and words and their order of preference in which they are to be rearranged.

S.No.	Word	No. of vowels	Order of Preference	Number	Changed Number	Order of Preference
1	prison	2	3 rd	24 - Even	26	4 th
2	pirates	3	2 nd	61 - Odd	59	2 nd
3	proxy	1	5 th	70 - Even	72	1 st
4	prone	2	4 th	53 - Odd	51	3 rd
5	prejudice	4	1 st	17 - Odd	15	5 th

Input: prison 24 pirates 61 proxy 70 prone 53 prejudice 17

Step1:72 prejudice prison 24 pirates 61 proxy prone 53 17

Reference:

Step1:78 fauna fire for 53 14 favour 27 freedom 36

Step2:51 favour 78 fauna fire for 14 27 freedom 36

Inference:

Step1:72 prejudice prison 24 pirates 61 proxy prone 53 17
Step2:59 pirates 72 prejudice prison 24 proxy prone 53 17

Reference:

Step2:51 favour 78 fauna fire for 14 27 freedom 36
Step3:38 freedom 51 favour 78 fauna fire for 14 27

Inference:

Step2:59 pirates 72 prejudice prison 24 proxy prone 53 17
Step3:51 prison 59 pirates 72 prejudice 24 proxy prone 17

Reference:

Step3:38 freedom 51 favour 78 fauna fire for 14 27
Step4:25 fire 38 freedom 51 favour 78 fauna for 14

Inference:

Step3:51 prison 59 pirates 72 prejudice 24 proxy prone 17
Step4:26 prone 51 prison 59 pirates 72 prejudice proxy 17

Reference:

Step4:25 fire 38 freedom 51 favour 78 fauna for 14
Step5:16 for 25 fire 38 freedom 51 favour 78 fauna

Inference:

Step4:26 prone 51 prison 29 pirates 72 prejudice proxy 17
Step5:15 proxy 26 prone 51 prison 59 pirates 72 prejudice

Final Output:

Input: prison 24 pirates 61 proxy 70 prone 53 prejudice 17
Step1:72 prejudice prison 24 pirates 61 proxy prone 53 17
Step2:59 pirates 72 prejudice prison 24 proxy prone 53 17
Step3:51 prison 59 pirates 72 prejudice 24 proxy prone 17
Step4:26 prone 51 prison 59 pirates 72 prejudice proxy 17
Step5:15 proxy 26 prone 51 prison 59 pirates 72 prejudice



61. The step 3 of the given input is - 51 prison 59 pirates 72 prejudice 24 proxy prone 17

Option C, is hence the correct answer.

62. From the following explanation it is clear that '61' is third to the right of third from the left end in step 1.

Option D, is hence the correct answer.

63. From the following explanation it is clear that 'prison' comes exactly between prone and pirates in step 4.

Option A, is hence the correct answer.

64. From the following explanation it is clear that 'prison 59 pirates' is seen in step 3 for the first time .

Option B, is hence the correct answer.

65. From the following explanation it is clear that in step 2, the difference of the sum of prime numbers and sum of even numbers is 33.

Option C, is hence the correct answer.



Common explanation : (Q. 66 to Q.70)

Change in Number: Change in numbers take place as per the ascending order of the sum of the digits of each number.

Change in Word: Change in words take place in descending order of number of consonants in each word.

Note: Changes in word and number take place in alternate steps starting with number first. If in a step, a number is already at the desired place then for that particular step operation will be performed on word and vice-versa.

The given pattern:

Input: fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers 52

Step I: 52 fruit 29 frozen 71 vegetable 46 cultivation 39 fertilizers

Step II: 52 fertilizers fruit 29 frozen 71 vegetable 46 cultivation 39

Step III: 52 fertilizers 71 fruit 29 frozen vegetable 46 cultivation 39

Step IV: 52 fertilizers 71 cultivation fruit 29 frozen vegetable 46 39

Step V: 52 fertilizers 71 cultivation 46 fruit 29 frozen vegetable 39

Step VI: 52 fertilizers 71 cultivation 46 vegetable fruit 29 frozen 39

Step VII: 52 fertilizers 71 cultivation 46 vegetable 29 fruit frozen 39

Step VIII: 52 fertilizers 71 cultivation 46 vegetable 29 frozen fruit 39

Step IX: 52 fertilizers 71 cultivation 46 vegetable 29 frozen 39 fruit

Table showing change in the given pattern:

Word	Change in Word		Change in Number		
	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
fruit	3	5 th	29	11	4 th
frozen	4	4 th	71	8	2 nd
vegetable	5	3 rd	46	10	3 rd
cultivation	6	2 nd	39	12	5 th
fertilizers	7	1 st	52	7	1 st

Output for the asked input:

Input: roam 12 countries 37 travelling 59 across 63 globe 94

Step I: 12 roam countries 37 travelling 59 across 63 globe 94

Step II: 12 travelling roam countries 37 59 across 63 globe 94

Step III: 12 travelling 63 roam countries 37 59 across globe 94

Step IV: 12 travelling 63 countries roam 37 59 across globe 94

Step V: 12 travelling 63 countries 37 roam 59 across globe 94

Step VI: 12 travelling 63 countries 37 across roam 59 globe 94

Step VII: 12 travelling 63 countries 37 across 94 roam 59 globe

Step VIII: 12 travelling 63 countries 37 across 94 globe roam 59

Step IX: 12 travelling 63 countries 37 across 94 globe 59 roam

Table showing change in the asked input:

Change in Word			Change in Number		
Word	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
roam	2	5 th	12	3	1 st
countries	5	2 nd	37	10	3 rd
travelling	7	1 st	59	14	5 th
across	4	3 rd	63	9	2 nd
globe	3	4 th	94	13	4 th

66. After completion of step III, only 6 steps are needed to reach the final output i.e. Step IX.

Hence option B is correct.

67. From the following output it is clear that 37 is fourth to the right of second element from left end in step III.

Hence option C is correct.

68. From the following output it is clear that "countries roam 37" is the only sequence which is unique i.e. not repeated in any other step.

Hence option D is correct.

69. From the following explanation it is clear that there are three words between the second element from right end and third element from left end in step VIII.

Hence option A is correct.

70. From the following explanation it is clear that '63' is third to the left of across in the final output.

Hence option B is correct.



Common Explanations (71-75):

Each step is obtained by applying an **operation different from the previous step**.

Reference:

Input: shady sun made weather pleasant to roam around

Step1: 8 6 6 10 10 4 6 8

Inference:

Here the operation performed is : **Addition**.

Here, the conversion of letters to numbers is done by performing addition of certain numbers to the number of letters of each word. The numbers are to be written in the same order in which their respective words are written in the input.

Following the same logic, we can easily find the values of step 1.

- For 'your' number of letters are 4 so its respective number becomes $4 + 2 = 6$.
- For 'early', number of letters are 5 so its respective number becomes $5 + 3 = 8$.

Input: early to bed keeps your mind fit robust

Step1: 8 4 6 8 6 6 6 8

Reference:

Step1: 8 6 6 10 10 4 6 8

Step2: 48 60 40 48

Inference:

Here the mathematical operation performed is : **Multiplication**.

- To obtain the first value of step 2, product of first and second numbers (from left end) is taken.
- To get the second value of step 2, product of third and fourth numbers is taken.
- To acquire the third value of step 2, product of fifth and sixth numbers is taken.
- To identify the fourth value of step 2, product of seventh and eighth numbers is taken.

Following the same logic, we can easily find the values of step 2.

Step1: 8 4 6 8 6 6 6 8

Step2: 32 48 36 48

Reference:

Step2: 48 60 40 48

Step3: 12 8

Inference:

Here the operation performed is : **Subtraction**.

First value of step 3 is obtained by taking the difference of first and second numbers from left end.

Second value of step 3 is obtained by taking the difference of third and fourth numbers from left end.

Following the same logic, we can easily find the values of step 3.

Step2: 32 48 36 48

Step3: 16 12

Reference:

Step3: 12 8

Step4: 10

Inference:

Here the operation performed is : **Average**.

Average of both the numbers of step 3 is taken to obtain the value of step 4.

Following the same logic, the value of step 4 is $(16+12)/2 = 14$

Step3: 16 12

Step4: 14

71. From the following explanation it is clear that the final output is 14 and sum of its digits is 5.

Hence, option B is the correct answer.

72. From the following explanation it is clear that the sum of numbers greater than 7 in step 1 are = $8 + 8 + 8 \Rightarrow 24$

Sum of the numbers less than 7 = $4 + 6 + 6 + 6 + 6 \Rightarrow 28$

Required difference = $28 - 24 \Rightarrow 4$

Hence, option C is the correct answer.

73. From the following explanation it is clear that in the pair "42 – 14" 42 is not among the given values, thus is the odd one out.

In rest of the options both the numbers of the pair are among the values of different steps of output.

Hence, option E is the correct answer.

74. From the following explanation it is clear that the sum of the digits of step 3 are $1 + 6 + 1 + 2 = 10$

Square of 10 = 100.

Hence, option A is the correct answer.

75. From the following explanation it is clear that sum of the second number from right end and second number from left end is $48 + 36 = 84$

Hence, option B is the correct answer.

Common explanation : (Q. 76 to Q. 80)

Reference:

Input: 88 25 68 56 58 83 94

Step I: 88 68 25 56 58 83 94

Step II: 88 68 94 25 56 58 83

Step III: 88 68 94 58 25 56 83


Step IV: 88 68 94 58 83 25 56

Step V: 88 68 94 58 83 56 25

Step V is the last step of the arrangement.

Inference:

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
68	14
94	13
58	13
83	11
56	11
25	7

As the digits sum of both '94' and '58' is same, then the highest number i.e. 94 will be arranged first. Similarly, the digits sum of both '83' and '56' is same, then the highest number i.e. 83 will be arranged first.

Number	Arrangement Step
88	Step I
68	Step II
94	Step III
58	Step IV
83	Step V
56	Step VI
25	Step VII

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

76. Following the common explanation, we can say that step III of the given input will be:

Input: 87 37 54 98 46 29

Step III: 98 87 29 46 37 54

Hence, the correct answer is option B.

77. Following the common explanation, we can say that IV steps will be required to complete the arrangement.

Input: 38 71 26 93 37 44 54

Step IV: 93 38 37 54 71 44 26

Hence, the correct answer is option C.

78. Following the common explanation, we can say we cannot find the input step for the arrangement whose step IV is '75 49 63 45 53 16 26 41'.

Hence, the correct answer is option E.

79. Following common explanation, we get

India secured second position in the race.

Option A, is hence the correct answer.

80. Following the common explanation, we can say that '76 84 29 55 90 72' is step IV of the given input.

Input: 82 49 56 77 95 37

Step IV: 95 77 49 56 82 37

Hence, the correct answer is option B.



Common Explanations (81-85):

Each step is obtained by applying an **operation different from the previous step**.

Reference:

Input: spread joy laughter by sharing smile with masses

Step1: 9 2 11 5 6 4 7 9

Inference:

Here the operation performed is : **Addition**.

Here, the conversion of letters to numbers is done by performing addition of certain numbers to the number of letters of each word. The numbers are to be written in the same order in which their respective words are written in the input. If the number of letters are even then add 3 to the number of letters, if the number of letters are odd then less 1 from the number of letters.

Following the same logic, we can easily find the values of step 1.

- For 'good' number of letters are 4 so its respective number becomes $4 + 3 = 7$.
- For 'being', number of letters are 5 so its respective number becomes $5 - 1 = 4$.

Input: being good to everyone sometimes invite sad trouble

Step1: 4 7 5 11 8 9 2 6

Reference:

Step1: 9 2 11 5 6 4 7 9

Step2: 99 10 42 36

Inference:

Here the mathematical operation performed is : **Multiplication**.

- To obtain the first value of step 2, product of first and third numbers (from left end) is taken.
- To get the second value of step 2, product of second and fourth numbers is taken.
- To acquire the third value of step 2, product of fifth and seventh numbers is taken.
- To identify the fourth value of step 2, product of sixth and eighth numbers is taken.

Following the same logic, we can easily find the values of step 2.

Step1: 4 7 5 11 8 9 2 6

Step2: 20 77 16 54

Reference:

Step2: 99 10 42 36

Step3: 57 26

Inference:

Here the operation performed is : **Subtraction**.

First value of step 3 is obtained by taking the difference of first and third numbers from left end.

Second value of step 3 is obtained by taking the difference of second and fourth numbers from left end.

Following the same logic, we can easily find the values of step 3.

Step2: 20 77 16 54

Step3: 4 23

Reference:

Step3: 57 26

Step4: 5

Inference:

Here the operation performed is : **Average**.

Average of all the digits of step 3 is taken to obtain the value of step 4.

Following the same logic, the value of step 4 is $(4+2+3)/3 = 3$

Step3: 4 23

Step4: 3

- 81.** From the following explanation it is clear that if 3 is added to one of the digits of step 3, the final output will become 4 i.e. will be increased by 1.

Hence, option E is the correct answer.

- 82.** From the following explanation it is clear that sum of the numbers of step 3 is 27 (23+4), square of which is 729.

Hence, option A is the correct answer.

- 83.** From the following explanation it is clear that if 'sad' is replaced by "so" then second last value(From left end) of step 1 will become 5 and second last value(From left end) of step 2 will become 40 by replacing 16.

Hence, option B is the correct answer.

- 84.** From the following explanation it is clear that '3' is the only number that belongs to one of the steps of the given output, whereas all other numbers are not from the given steps of output.

Hence, option D is the correct answer.

- 85.** From the following explanation it is clear that the sum of even numbers in step 2 is 90 (20+16+54) and sum of odd numbers in step 3 is 23.

Required difference = $90 - 23 \Rightarrow 67$.

Hence, option C is the correct answer.

Common Explanations (86-90):

Change in Word: Change in words takes place as per the dictionary order and placed at the right end just 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.

The given pattern:

Input: name 72 nest 24 near 35 nostalgic 43 narrow 67

Step1: 72 nest near 35 nostalgic 43 narrow 67 name 242

Step2: 72 nest near nostalgic 43 67 name 242 narrow 335

Step3: 72 nest nostalgic 67 name 242 narrow 335 near 343

Step4: 72 nostalgic name 242 narrow 335 near 343 nest 367

Step5: name 242 narrow 335 near 343 nest 367 nostalgic 722

Solution to the given input:

Input: team 55 taboo 48 tackle 83 tissue 69 test 11

Step1: team 55 48 tackle 83 tissue 69 test taboo 311

Step2: team 55 83 tissue 69 test taboo 311 tackle 482

Step3: 83 tissue 69 test taboo 311 tackle 482 team 355

Step4: 83 tissue taboo 311 tackle 482 team 355 test 369

Step5: taboo 311 tackle 482 team 355 test 369 tissue 383

86. From the following output it is clear that 'taboo' is third from left in "Input" as well as in "step 4."

Hence option E is correct.



87. From the following output it is clear that "taboo 311 tackle 482 team 355 test 369 tissue 383" is the final output.

Step 5: taboo 311 tackle 482 team 355 test 369 tissue 383

Hence option B is correct.

88. From the following output it is clear that the difference between the highest and the lowest numbers of step 3 is 413.

Step3: 83 tissue **69** test taboo 311 tackle **482** team 355

Hence option D is correct.

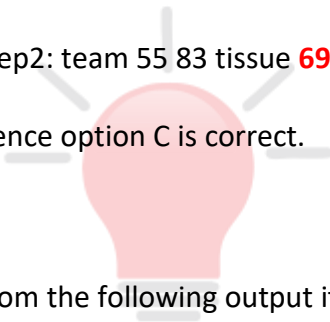
89. From the following output it is clear that '69' is second to the left of fourth element from right end in step 2.

Step2: team 55 83 tissue **69** test **taboo** 311 tackle 482

Hence option C is correct.

90. From the following output it is clear that '83 tissue taboo' is seen in the same sequence in step 4.

Hence option A is correct.



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Common Explanations (91-95):

Change in Number: Change in numbers take place as per the ascending order of the sum of the digits of each number. The number whose sum of digits is smallest is placed at extreme left end followed by the number whose sum of digits is second smallest and so on.

Change in Word: Change in words take place in descending order of number of consonants in each word. The word with the highest number of consonants is placed at left end (immediately after the number) followed by the word with the second highest number of consonants and so on.

Note: Changes in word and number take place in alternate steps starting with number first. If in a step, a number is already at the desired place then for that particular step operation will be performed on word and vice-versa.

The given pattern:

Input: faster 24 and 37 rapid 61 progressive 18 requirement 85 building 93
Step I: 24 faster and 37 rapid 61 progressive 18 requirement 85 building 93
Step II: 24 progressive faster and 37 rapid 61 18 requirement 85 building 93
Step III: 24 progressive 61 faster and 37 rapid 18 requirement 85 building 93
Step IV: 24 progressive 61 requirement faster and 37 rapid 18 85 building 93
Step V: 24 progressive 61 requirement 18 faster and 37 rapid 85 building 93
Step VI: 24 progressive 61 requirement 18 building faster and 37 rapid 85 93
Step VII: 24 progressive 61 requirement 18 building 37 faster and rapid 85 93
Step VIII: 24 progressive 61 requirement 18 building 37 faster 93 and rapid 85
Step IX: 24 progressive 61 requirement 18 building 37 faster 93 rapid and 85
Step X: 24 progressive 61 requirement 18 building 37 faster 93 rapid 85 and

Table showing change in the given pattern:

Change in Word			Change in Number		
Word	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
faster	4	4 th	24	6	1 st
and	2	6 th	37	10	4 th
rapid	3	5 th	61	7	2 nd
progressive	7	1 st	18	9	3 rd
requirement	6	2 nd	85	13	6 th
building	5	3 rd	93	12	5 th



Output for the asked input:

Input: technology 47 transfer 26 rate 72 achieving 51 extra 91 version 32
 Step I:32 technology 47 transfer 26 rate 72 achieving 51 extra 91 version
 Step II:32 technology 51 47 transfer 26 rate 72 achieving extra 91 version
 Step III:32 technology 51 transfer 47 26 rate 72 achieving extra 91 version
 Step IV:32 technology 51 transfer 26 47 rate 72 achieving extra 91 version
 Step V:32 technology 51 transfer 26 achieving 47 rate 72 extra 91 version
 Step VI:32 technology 51 transfer 26 achieving 72 47 rate extra 91 version
 Step VII:32 technology 51 transfer 26 achieving 72 version 47 rate extra 91
 Step VIII:32 technology 51 transfer 26 achieving 72 version 91 47 rate extra
 Step IX:32 technology 51 transfer 26 achieving 72 version 91 extra 47 rate

Table showing change in the asked input:

Word	Change in Word		Change in Number		
	No. of consonants	Order of Preference	Number	Sum of digits	Order of Preference
technology	7	1 st	47	11	6 th
transfer	6	2 nd	26	8	3 rd
rate	2	6 th	72	9	4 th
achieving	5	3 rd	51	6	2 nd
extra	3	5 th	91	10	5 th
version	4	4 th	32	5	1 st

- 91.** From the following output it is clear that 9 steps are needed to reach the final output. Hence option B is correct.
- 92.** From the following output it is clear that 'transfer' is fourth to the left of 47 in step VI.
 Step VI:32 technology 51 transfer 26 achieving 72 47 rate extra 91 version
 Hence option C is correct.
- 93.** From the following output it is clear that "version 91 47 rate" is seen in the same sequence in step VIII.
 Step VIII:32 technology 51 transfer 26 achieving 72 version 91 47 rate extra
 Hence option B is correct.
- 94.** From the following output it is clear that 'rate' is exactly between 51 and 91 in step III.
 Step III:32 technology 51 transfer 47 26 rate 72 achieving extra 91 version
 Hence option A is correct.
- 95.** From the following output it is clear that 'achieving' is seventh from right end in final output.
 Step IX:32 technology 51 transfer 26 achieving 72 version 91 extra 47 rate
 Hence option B is correct.

Common Explanations (96-100):

Reference:

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

Step I: 88 79 create history imagined 94 63 leader 96 every

Step II: 88 79 96 history imagined 94 63 leader every create

Step III: 88 79 96 history imagined 94 63 every create leader

Step IV: 88 79 96 94 imagined 63 every create leader history

Step V: 88 79 96 94 63 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 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 Letters	Arrangement 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 53 46 anyplace 74

Step I: 39 42 leaved important object 53 46 anyplace 74 never

Step II: 39 74 42 important object 53 46 anyplace never leaved

Step III: 39 74 46 42 important 53 anyplace never leaved object

Step IV: 39 74 46 53 42 important never leaved object anyplace

Step V: 39 74 46 53 42 never leaved object anyplace important

Step V is the last step of the arrangement.

Final Solution:

Input: never 42 leaved 39 important object 53 46 anyplace 74

Step I: 39 42 leaved important object 53 46 anyplace 74 never

Step II: 39 74 42 important object 53 46 anyplace never leaved

Step III: 39 74 46 42 important 53 anyplace never leaved object

Step IV: 39 74 46 53 42 important never leaved object anyplace

Step V: 39 74 46 53 42 never leaved object anyplace important

Step V is the last step of the arrangement.

96. 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**.

97. Following the final solution we can say that '39 74 46 53 42 important never leaved object anyplace' will be the last but one.

Hence, the correct answer is option **B**.

98. 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 **E**.

99. 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**.

100. 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 **A**.

Common Explanations (101-105):

Reference:

Input: always begin from bottom mount high

Step I: aabdho eimty inou ggnooy gmnou isst

Inference:

In the Step I, firstly the consonants within each word in Input step are reversed in cyclic alphabetical order after that the words thus formed are arranged according to dictionary from left to right.

For example:

The word 'Fear' after reversing the consonants in cyclic alphabetical order and arranging the letters in alphabetical order becomes 'aeiu'.

Using the same rule Step I of the given Input can be written as:

Input: fear creates demons only hope defeat

Step I: aeiu aeeghix ehmnw bmoo eoks aeeguw

Reference:

Step II: 3 44 31 23 2 49

Inference:

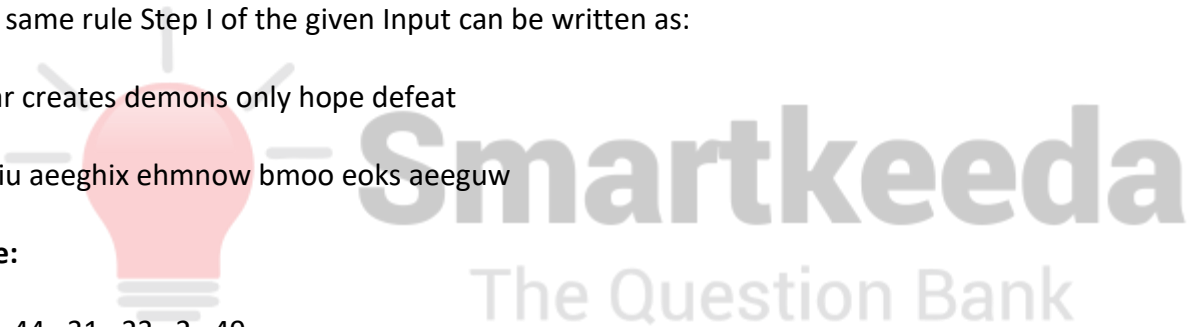
In the Step II, the difference of numbers obtained from the sum of the numeric position in alphabetic series of each vowel and the sum of the numeric position in alphabetic series of each vowel of the same word in Step I is taken.

For example:

The vowels in the word 'aeiu' are 'a', 'e', 'i' and 'u' and numeric position of 'a', 'e', 'i' and 'u' in alphabetic is '1', '5', '9' and '21' respectively so the sum of the numeric positions of vowels is $1 + 5 + 9 + 21 = 36$. As, there are no consonants in the word 'aeiu' so we will consider 36 as the final number.

And, the vowels in the word 'aeeghix' are 'a', 'e', 'e' and 'i' and numeric position of 'a', 'e', 'e' and 'i' in alphabetic is '1', '5', '5' and '9' respectively, so the sum of the numeric positions of vowels is $1 + 5 + 5 + 9 = 20$ and the consonants in the word 'aeeghix' are 'g', 'h' and 'x' and numeric position of 'g', 'h' and 'x' in alphabetic is '7', '8', and '24' respectively, so the sum of the numeric position of consonants is $7 + 8 + 24 = 39$. And, the difference of 39 and 20 is 19 so the number is 19.

Using the same rule Step II of the given Input can be written as:



Step II: 36 19 38 15 10 2

Reference:

Step III: 48 18 72

Inference:

In the Step III, the digits of first and second number are multiplied within the number and the numbers thus obtained are multiplied form a single number the same pattern is followed with third and fourth number, and fifth and sixth number.

For example:

First and second numbers from left end is Step II are '36' and '19' respectively and after multiplying the digits of '36' and '19' with the numbers we get '18' and '9', and after multiplying '18' and '9' we get 162. So the number is 162.

Using the same rule Step III of the given Input can be written as:

Step III: 162 120 0

Reference:

Step IV: 3 9

Inference:



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The first and second numbers from left end in Step III are subtracted then the digits of the number thus formed are added within the number to form the first number from left end in step IV. and the same pattern is repeated with second and third number from left end in step III to form the second number from left end in step IV.

For example:

First and second numbers from left end in Step III are '162' and '120' respectively. The difference of '162' and '120' is 42 and the sum of the digits of '42' is '4 + 2 = 6'. So the number is 6.

Using the same rule Step IV of the given Input can be written as:

Step IV: 6 3

Reference:

Step V: 144

Step V is the last step of the arrangement.

Inference:

In the Step V, the sum of the numbers in step IV is taken and the number thus formed is squared.

For example:

After adding the numbers $6 + 3 = 9$ and the square of 9 is 81. So the number is 81.

Using the same rule Step V of the given Input can be written as:

Step V: 81

As it is given that Step V is the last step of the arrangement so the given input is completed.

101. Following the final solution we can say that 81 will be obtained in final step of the arrangement.

Hence, the correct answer is option **C**.

102. Following the final solution we can say that the numbers obtained in step IV are '6' and '3'.

Required Value = $6 \times 3 = 18$

Hence, the correct answer is option **D**.

103. Following the final solution we can say that 36 will represent 'Fear' in step II.

Hence, the correct answer is option **A**.

104. Following the final solution we can say that 'aeguw' will be obtained in step I of the given arrangement.

Hence, the correct answer is option **E**.

105. Following the final solution we can say that the numbers obtained in step III are '162', '120' and '0'.

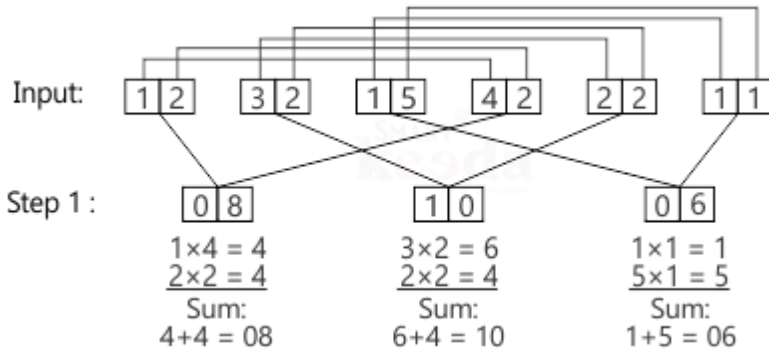
Required Value = $162 + 120 + 0 = 282$

Hence, the correct answer is option **B**.



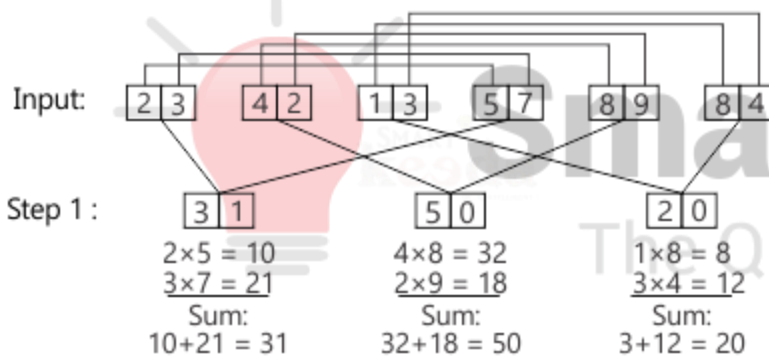
Common Explanations (106-110):

Reference:

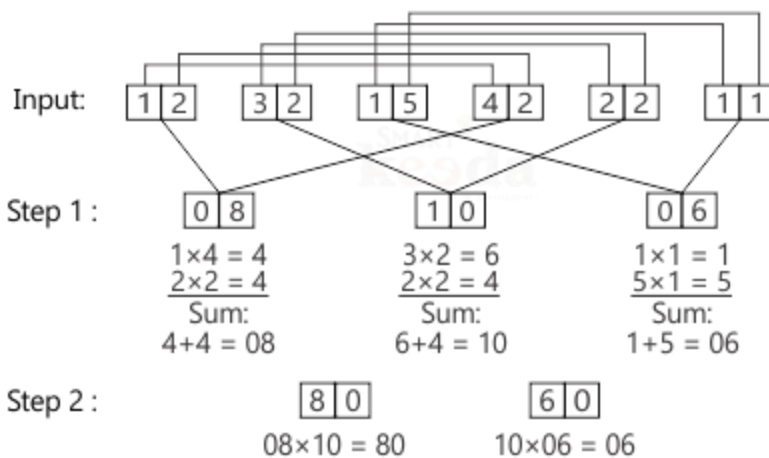


Inference:

Digits are first multiplied and then are added before writing in the box of next step.

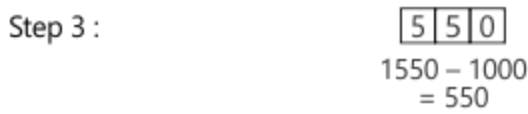
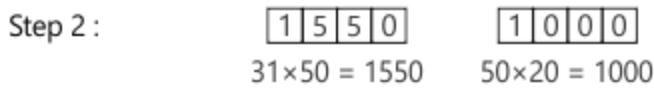
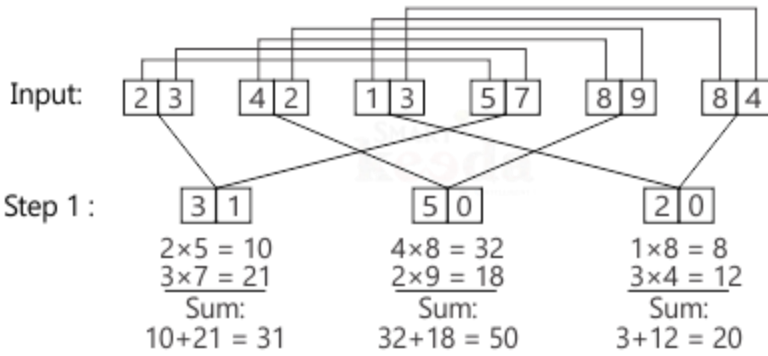


Reference:

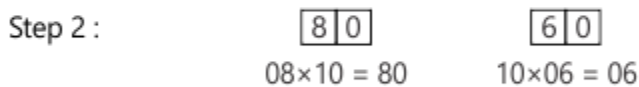
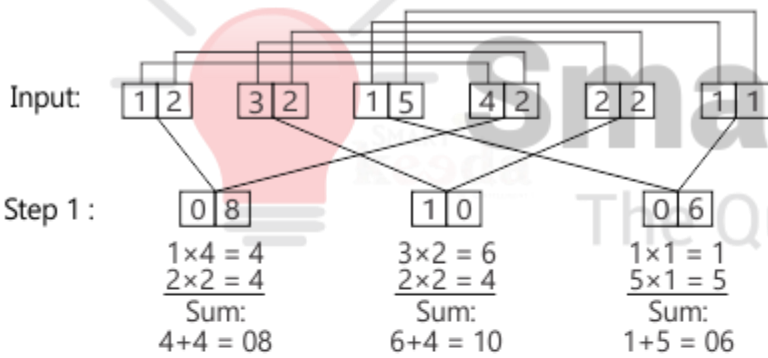


Inference:

Numbers are multiplied keeping the middle box common.



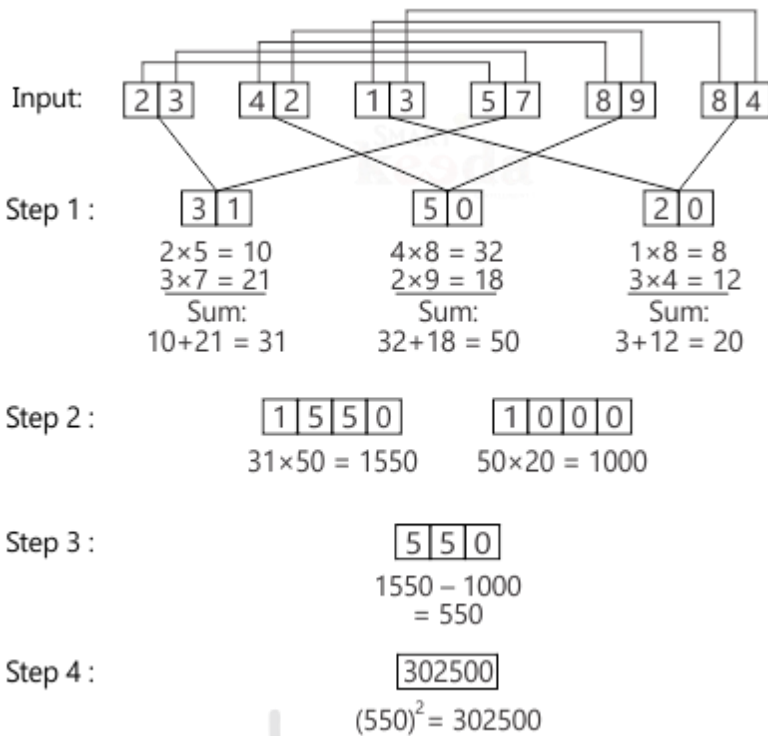
Reference:



Inference:

Number is now squared to get the final output.





106. 151250 is half of the value obtained in final step.

Option A, is hence the correct answer.

107. 1550 is one of the numbers obtained in step II.

Option A, is hence the correct answer.

108. As, $1550 - 1000 = 550$.

So, the Difference between the numbers obtained in step II is 550.

Option B, is hence the correct answer..

109. 50 is one of the numbers obtained in step I.

Option D, is hence the correct answer.

110. Step IV is the required final step.

Option C, is hence the correct answer.

Common Explanations (111-115):

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:

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

- 111.** 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.

- 112.** 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.

- 113.** 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.

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

Hence option B is correct.

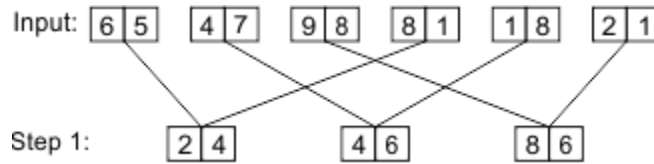
- 115.** The numbers to the right of 'base' in step I are 45 and 64, required sum is 109.

Hence option A is correct.



Common Explanations (116-120):

Reference:



Inference:

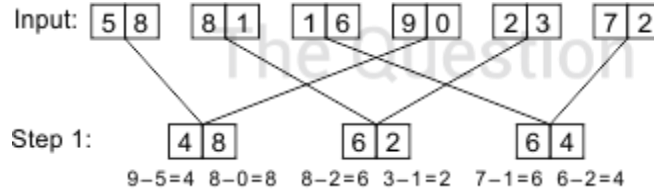
Studying the above Input and Step-1 we can say that each digit of the Step-1 is the difference of the digits of the boxes connected by arrows.

Here, difference is taken in such manner that to procure 1st digit of 1st box in step 1 we are taking the difference of even digits of box 1 and box 4, considering the fact that if the first element of the box is even then difference of even digits is taken first and vice versa.

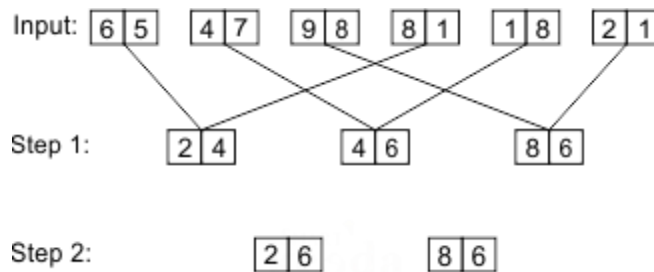
Following the same pattern we can get all the elements of step-1.



Here, step-1 of the given input can be written as:



Reference:

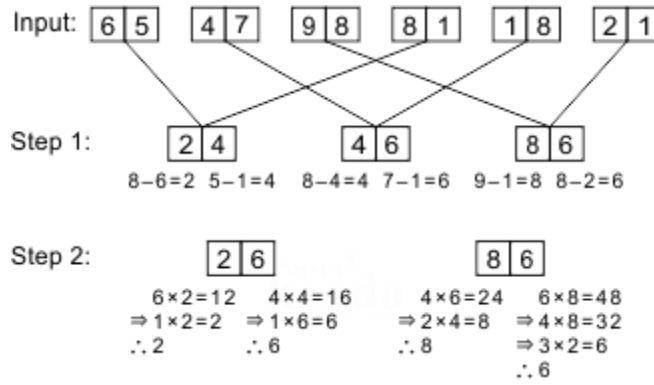


Inference:

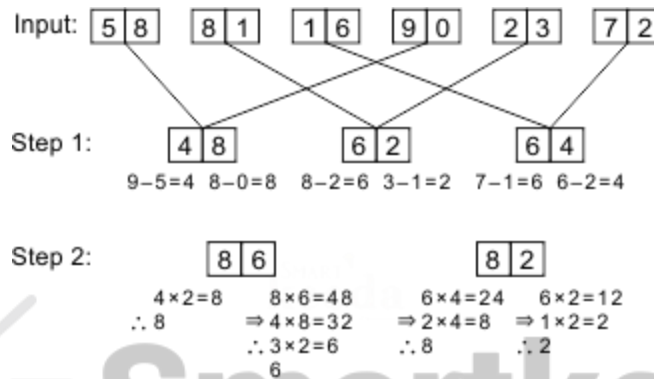
Studying the step-2 we can say that each digit of step-2 is obtained by multiplying the digits of step-1.

Now, 1st digit of 1st box in step 2 is obtained by multiplying 1st digit of 1st box and 2nd digit of 2nd box of step-1, multiplication is done consecutively till a single digit is obtained.

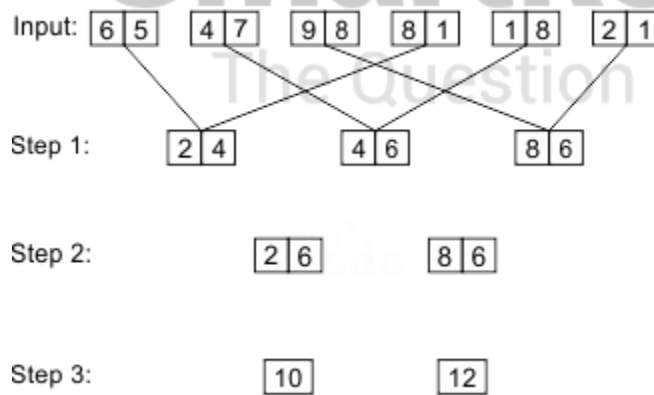
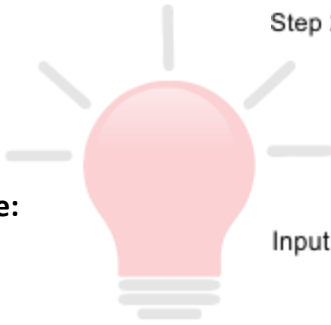




Following the same pattern step-2 of the given input can be written as:



Reference:



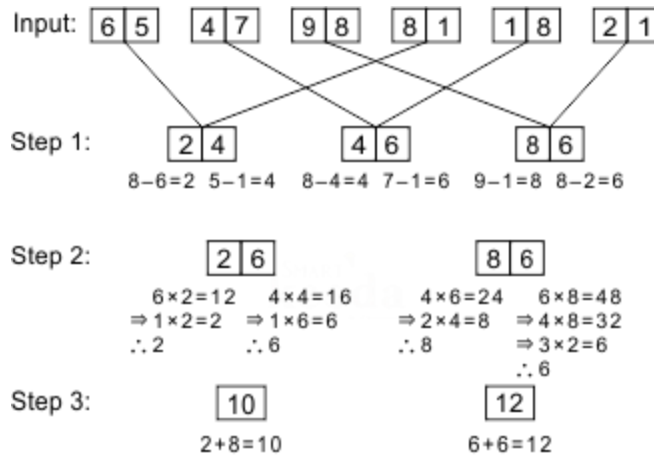
Inference:

Studying the step-3 we can say that each number of step-3 is obtained by addition of digits of step-2.

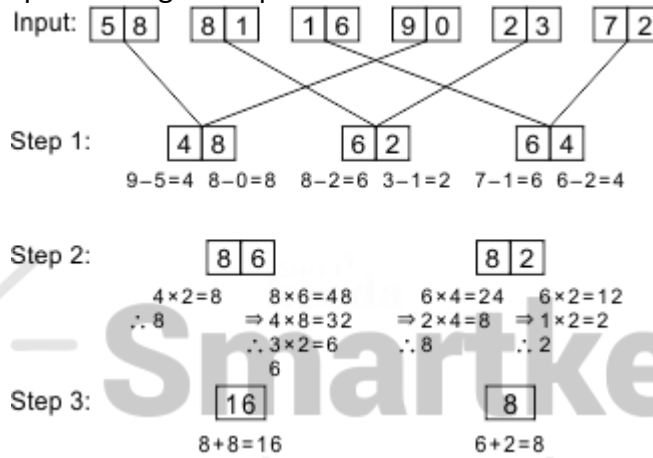
Here, value of 1st box of step 3 is obtained by adding 1st digit of box 1 and 1st digit of box 2 of step-2.

Similarly, value of 2nd box of step-3 is obtained by adding 2nd digit of box 1 and 2nd digit of box 2 of step-2.

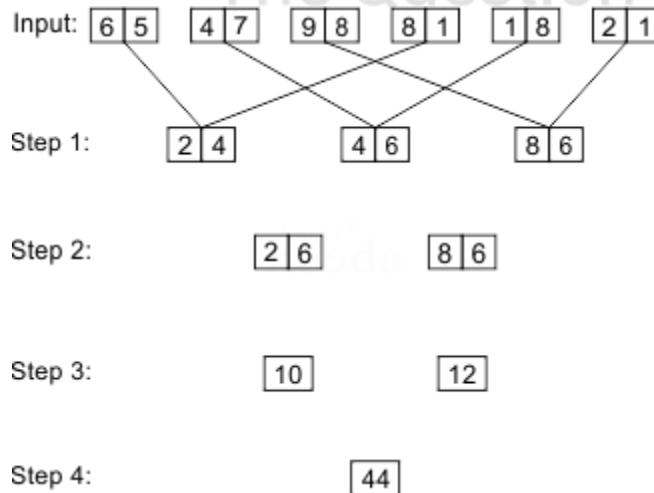




Following the same pattern step-3 of the given input can be written as:



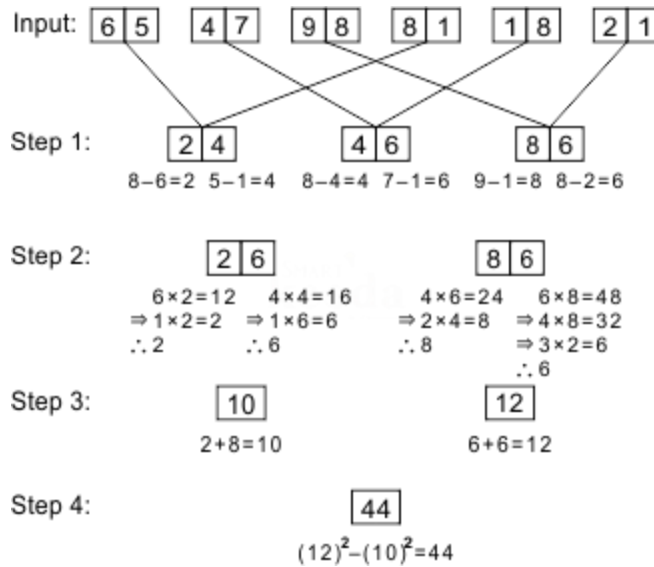
Reference:



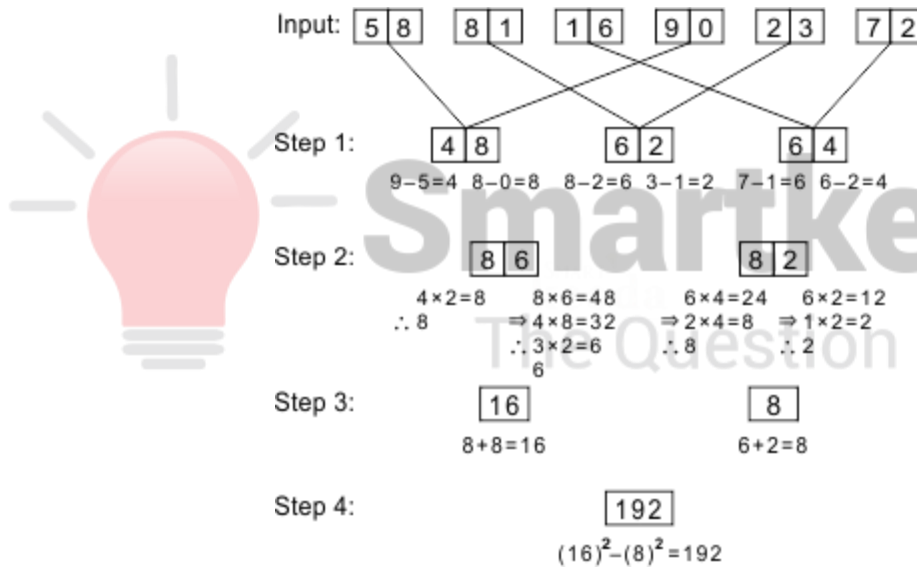
Inference:

Studying the step-4 we can say that the number of step-4 is obtained by taking the difference of the square of the respective values obtained in boxes of step-3.





Following the same pattern step-4 of the given input can be written as:



116. Following the final solution we can say that the boxes present in step-2 are [8|6] and [8|2] respectively.

Sum of digits of box 1 = $8 + 6 = 14$ and sum of digits of box 2 = $8 + 2 = 10$

Required difference = $14 - 10 = 4$

Hence the correct answer is option A.

117. Following the final solution we can say that the numbers present in step-3 are 16 and 8 respectively.

Required Sum = $16 + 8 = 24$.

Hence the correct answer is option E.

118. Following the final solution we can say that 62 will be present in step-1.

Hence the correct answer is option B.

119. Following the final solution we can say that the digits present in step-4 are [192].

Required Sum = $1 + 9 + 2 = 13$

Hence the correct answer is option D.

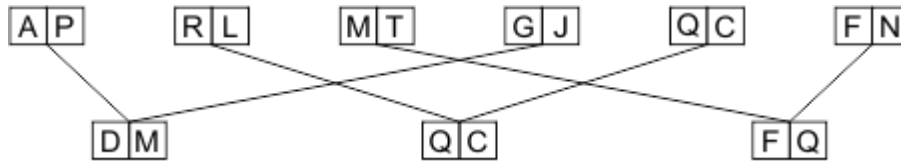
120. Following the final solution we can say that combination [4|8|2] correctly represents the 1st digits of 3rd box from right end, 2nd digit of 1st box from left end and 2nd digit of middle box of step-1

Hence the correct answer is option C.



Common Explanations (121-125):

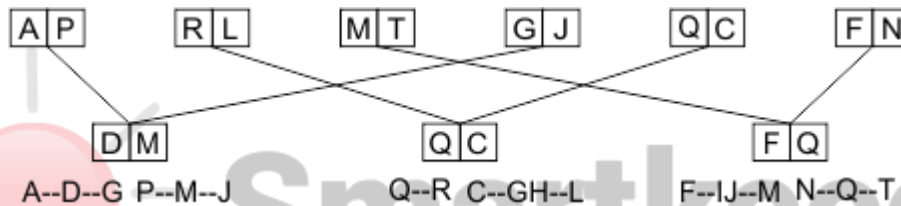
Reference:



Inference:

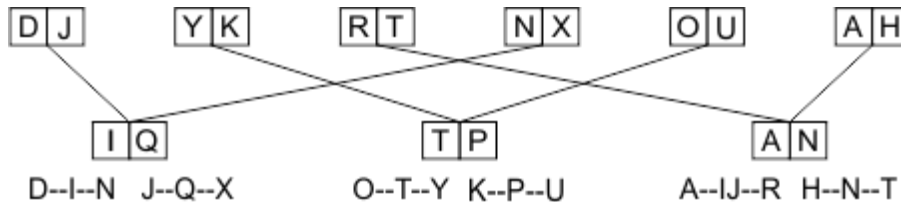
Studying the above Input and Step-1 we can say that each letter of the Step-1 is the middle of the letters of the box connected by arrows.

Here, for 1st letter of 1st box in step 1 we are taking the middle letter of the first letters of box 1 and box 4. And if there are two letters or no letter in the middle then the letter which comes first in alphabetical series from the letters that are being compared from the respective boxes will be written as the value obtained.

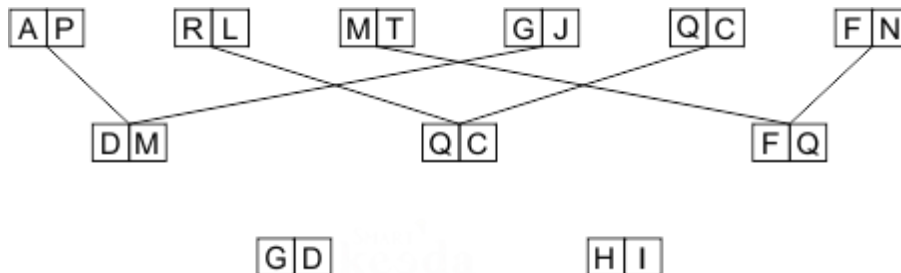


Following the same pattern we can write all the elements of step-1.

Here, step-1 of the given input can be written as:



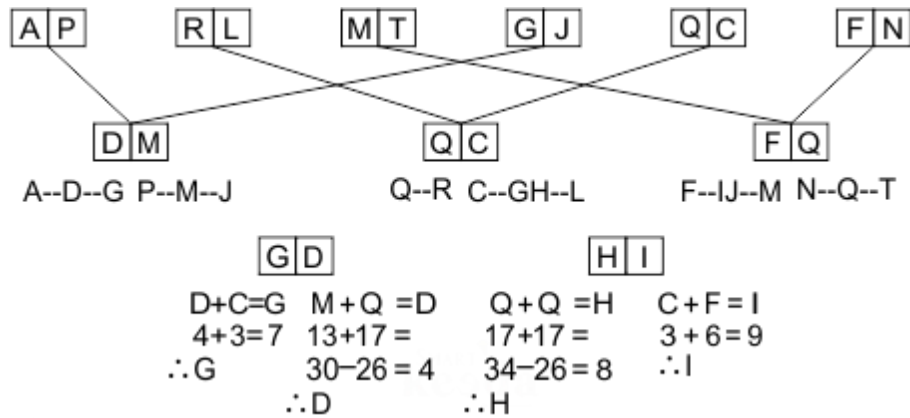
Reference:



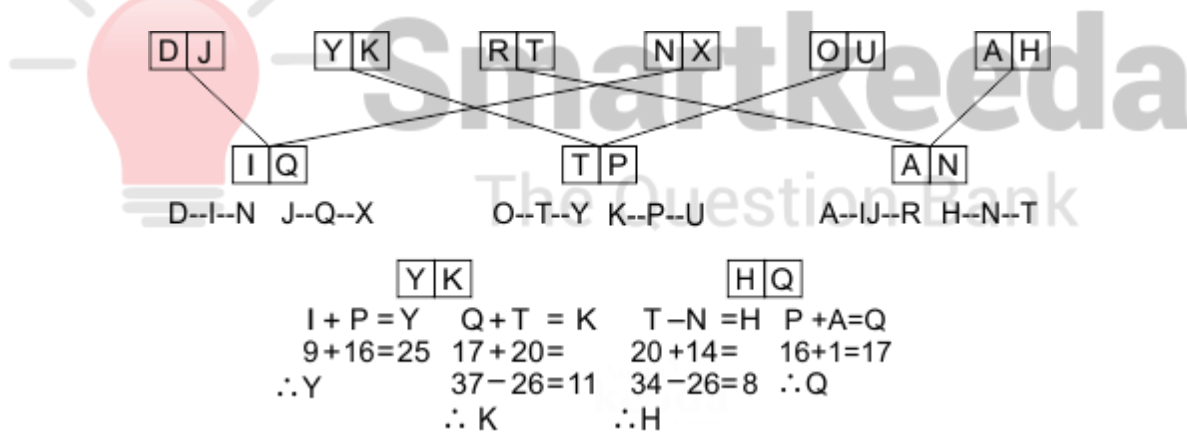
Inference:

Studying the step-2 we can say that each letter of step-2 is obtained by adding numerical position of some letters of step-1.

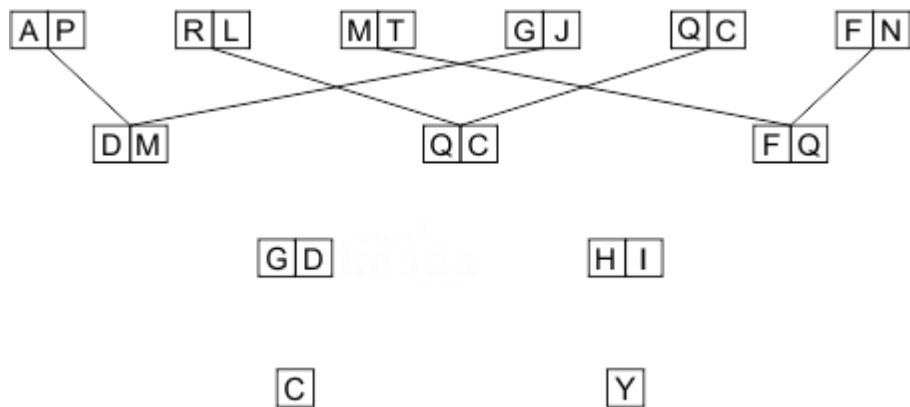
Now, 1st letter of 1st box in step 2 is obtained by adding numerical position of 1st letter of 1st and 2nd letter of 2nd box of step-1. And if the sum exceeds 26 then it is first decreased by 26 and then number obtained is changed into its respective letter.



Following the same pattern step-2 of the given input can be written as:



Reference:

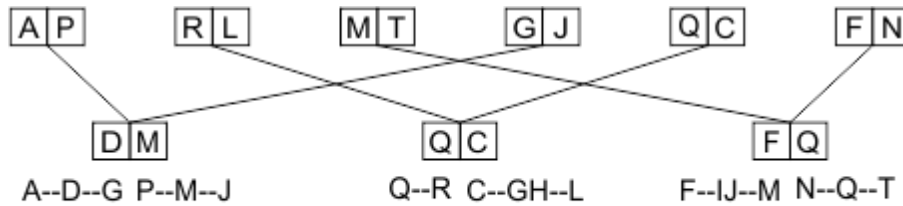


Inference:

Studying the step-3 we can say that each number of step-3 is obtained by subtracting some letters of step-2.

Here, 1st box of step 3 is obtained by subtracting numerical position of second letter of 1st box from the first letter of the same box of step-2.

Similarly, 2nd box of step-3 is obtained by subtracting numerical position of second letter of 1st box from the first letter of the same box of step-2. If the resultant is negative in value then 26 is added to it and the number obtained is changed into its respective letter.



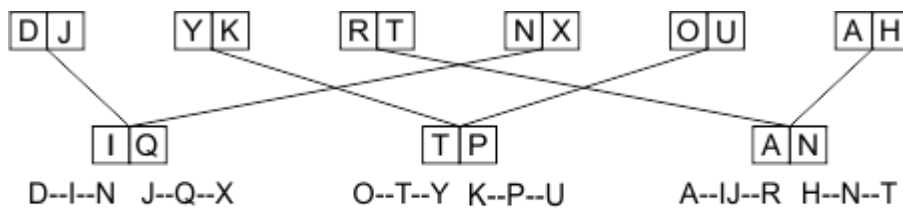
[G D]	[H I]
D+C=G M+Q =D	Q+Q =H C+F=I
4+3=7 13+17=	17+17= 3+6=9
∴G 30-26=4	34-26=8 ∴I
∴D	∴H



[C]	[Y]
G-D=C	H-I=Y
7-4=3	8-9=
∴C	-1+26=25
	∴Y

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The Question Bank

Following the same pattern step-3 of the given input can be written as:

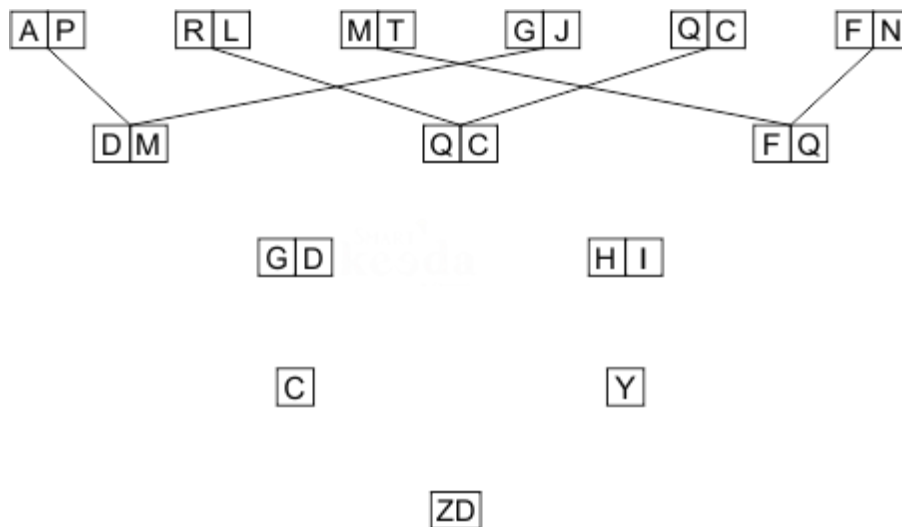


[Y K]	[H Q]
I+P=Y Q+T =K	T-N =H P+A=Q
9+16=25 17+20=	20+14= 16+1=17
∴Y 37-26=11	34-26=8 ∴Q
∴K	∴H

[N]	[Q]
Y-K =N	H-Q =Q
25-11=14	8-17=
∴N	-9+26=17
	∴Q

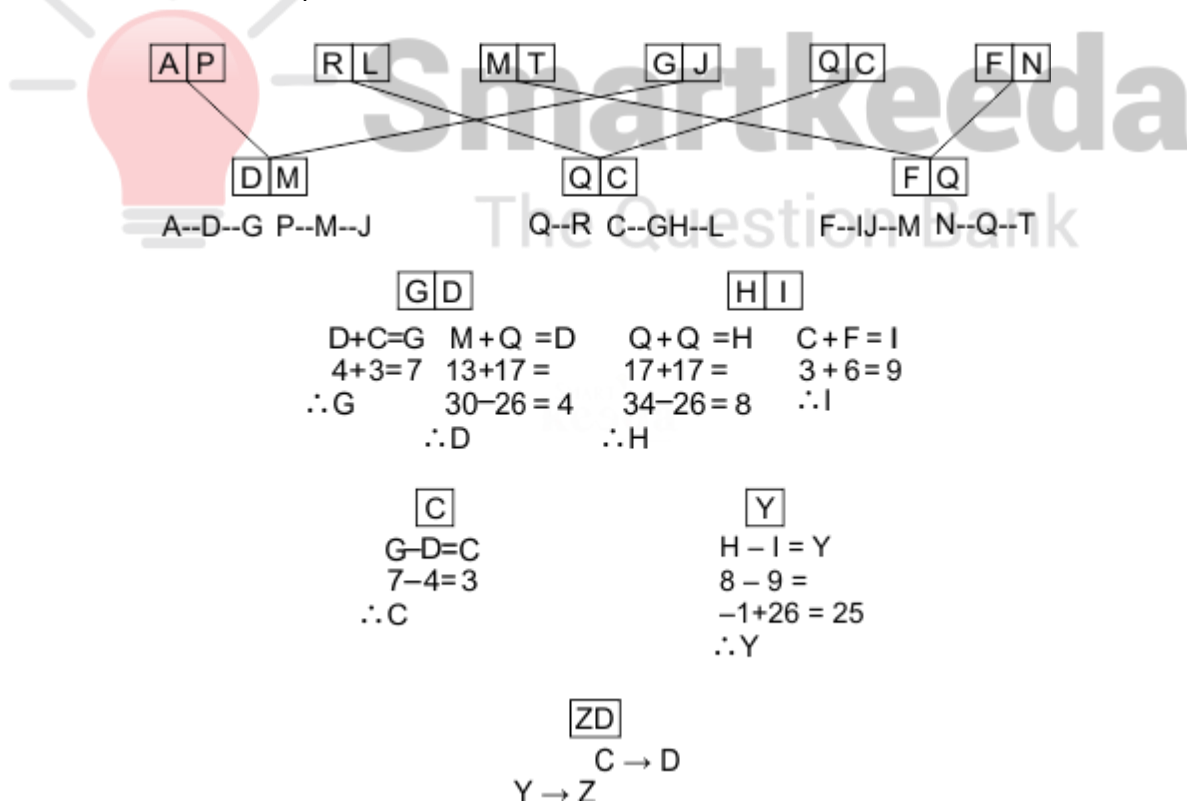


Reference:



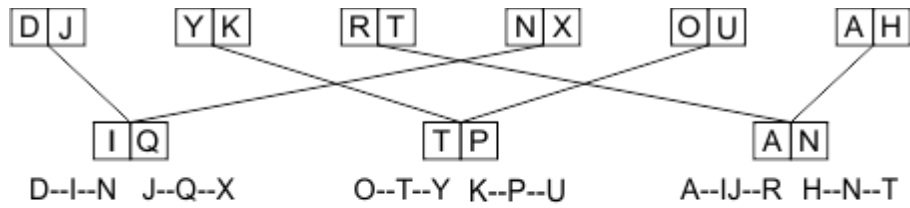
Inference:

Studying the step-4 we can say that each letter of step-4 is obtained by writing the next letter of the letters in the boxes in reverse order of step-3.



Following the same pattern step-4 of the given input can be written as:





$$\begin{array}{l}
 \boxed{YK} \qquad \qquad \boxed{HQ} \\
 I + P = Y \quad Q + T = K \quad T - N = H \quad P + A = Q \\
 9 + 16 = 25 \quad 17 + 20 = \quad 20 + 14 = \quad 16 + 1 = 17 \\
 \therefore Y \qquad \qquad 37 - 26 = 11 \quad 34 - 26 = 8 \quad \therefore Q \\
 \qquad \qquad \qquad \therefore K \qquad \qquad \therefore H
 \end{array}$$

$$\begin{array}{l}
 \boxed{N} \\
 Y - K = N \\
 25 - 11 = 14 \\
 \therefore N
 \end{array}$$

$$\begin{array}{l}
 \boxed{Q} \\
 H - Q = Q \\
 8 - 17 = \\
 -9 + 26 = 17 \\
 \therefore Q
 \end{array}$$

$$\begin{array}{l}
 \boxed{RO} \\
 N \rightarrow O \\
 Q \rightarrow R
 \end{array}$$

121. Following the final solution we can say that all of the given vowels are not present in step-2.
Hence the correct answer is option E.

122. Following the final solution we can say that the letters present in step-3 are N and Q respectively.

$$\text{Required Sum} = 14 + 17 = 31.$$

Hence the correct answer is option A.

123. Following the final solution we can say that K is present in step-2.

Hence the correct answer is option B.

124. Following the final solution we can say that the letters present in step-4 are [RO] and we know that there are only two letters between R and O.

Hence the correct answer is option D.

125. Following the final solution we can say that 'TIP' can be formed using the letters present in step-1.

Hence the correct answer is option C.

Common Explanations (126 – 130) :

References:

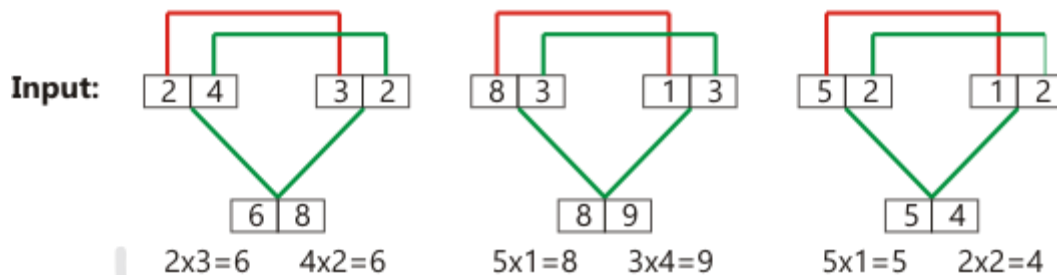
First of all in this input we will see how we can get 6 8 and for getting 6 we have to do $2 \times 3 = 6$ and, for getting 8 we have to do $4 \times 2 = 8$ and so on:

$$8 \times 1 = 8$$

$$3 \times 3 = 9$$

$$5 \times 1 = 5$$

$$2 \times 2 = 4$$



Inferences:

Now we know the pattern for step 1 so we will use the same pattern in our input which we have so:

$$1 \times 5 = 5$$

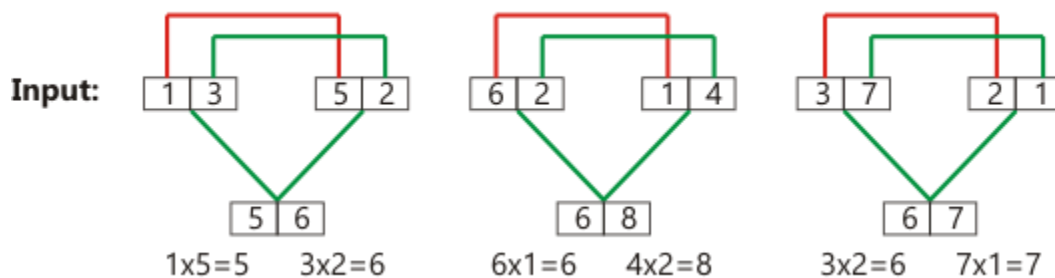
$$3 \times 2 = 6$$

$$6 \times 1 = 6$$

$$4 \times 2 = 8$$

$$3 \times 2 = 6$$

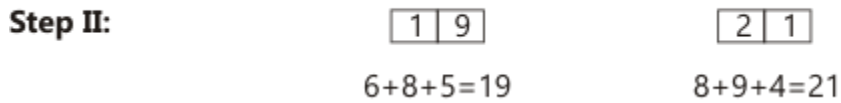
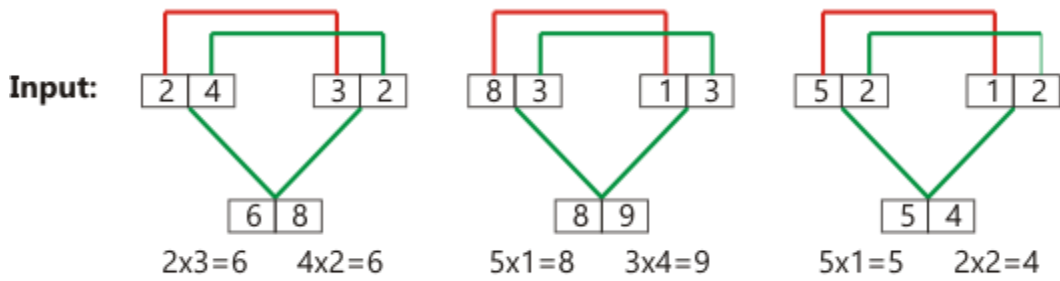
$$7 \times 1 = 7$$



References:

For second step we have to add $6+8$ and 5 so we can get 19 and $8+9$ with 4 so we can get 21

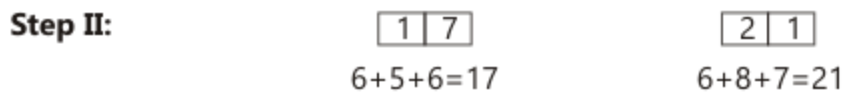
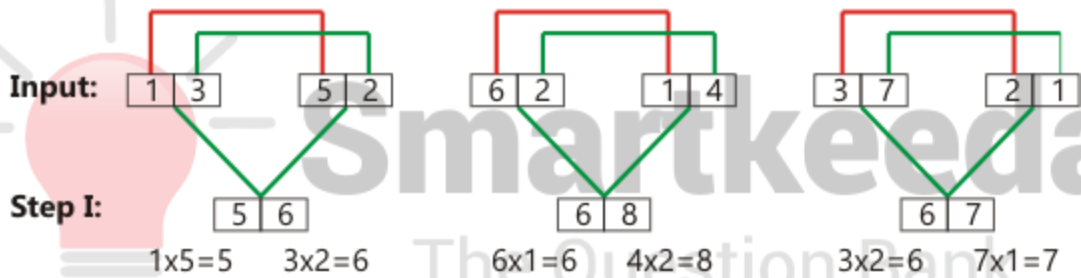




Inferences:

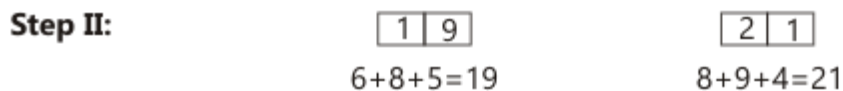
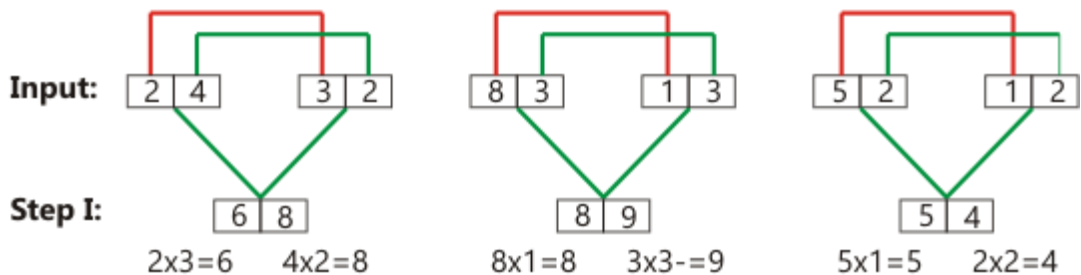
Now we know the pattern for step: II so we will use the same pattern in it.

And it will come after using the pattern: $6 + 5 + 6 = 17$, $6 + 8 + 7 = 21$



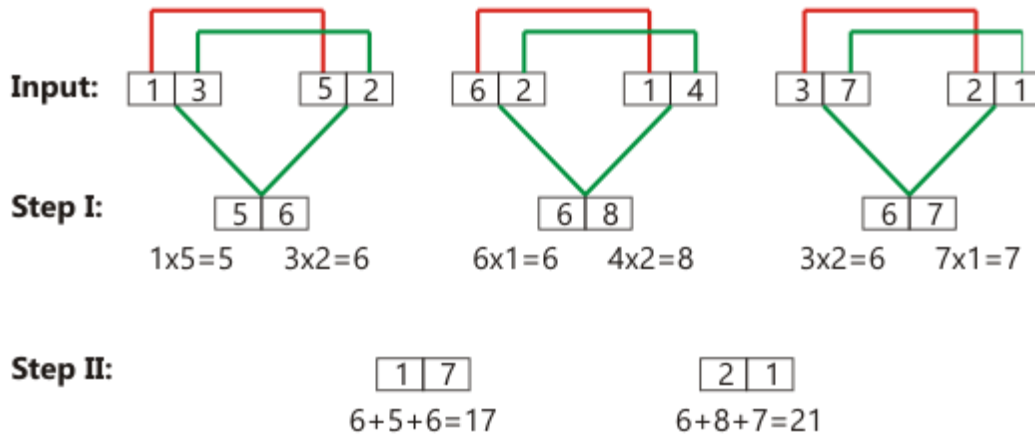
References:

In this step we can easily understand that $1 \times 9 = 9$, $2 \times 1 = 2$ so we will use the same pattern in our solution:



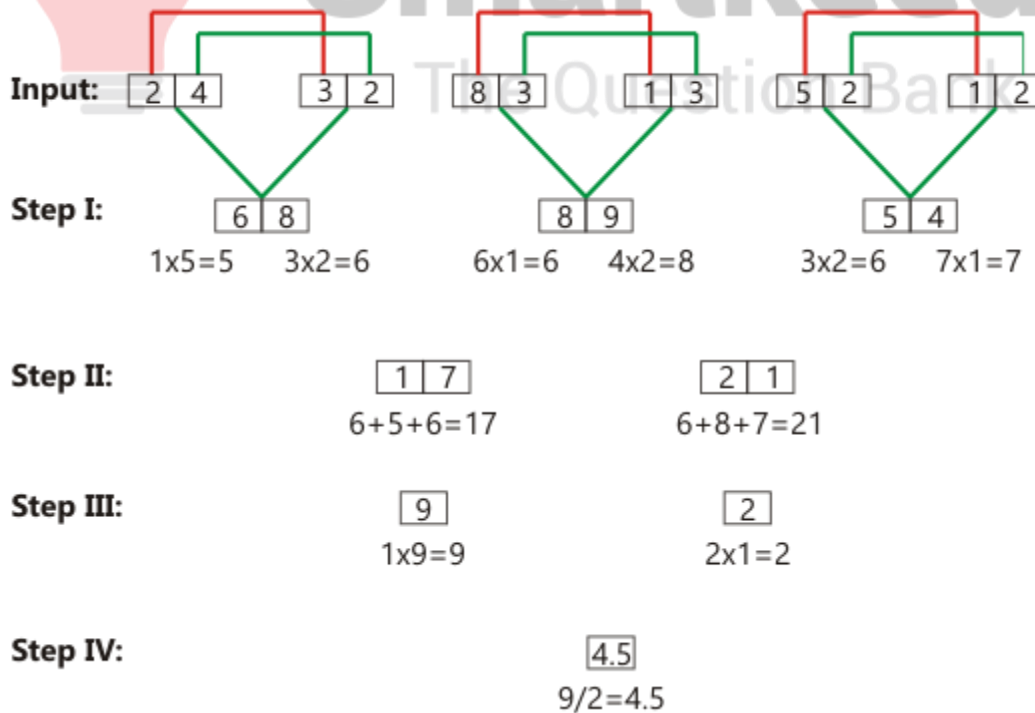
Inferences:

Because we know the pattern so we will use it now $1 \times 7 = 7$, $2 \times 1 = 2$ so:



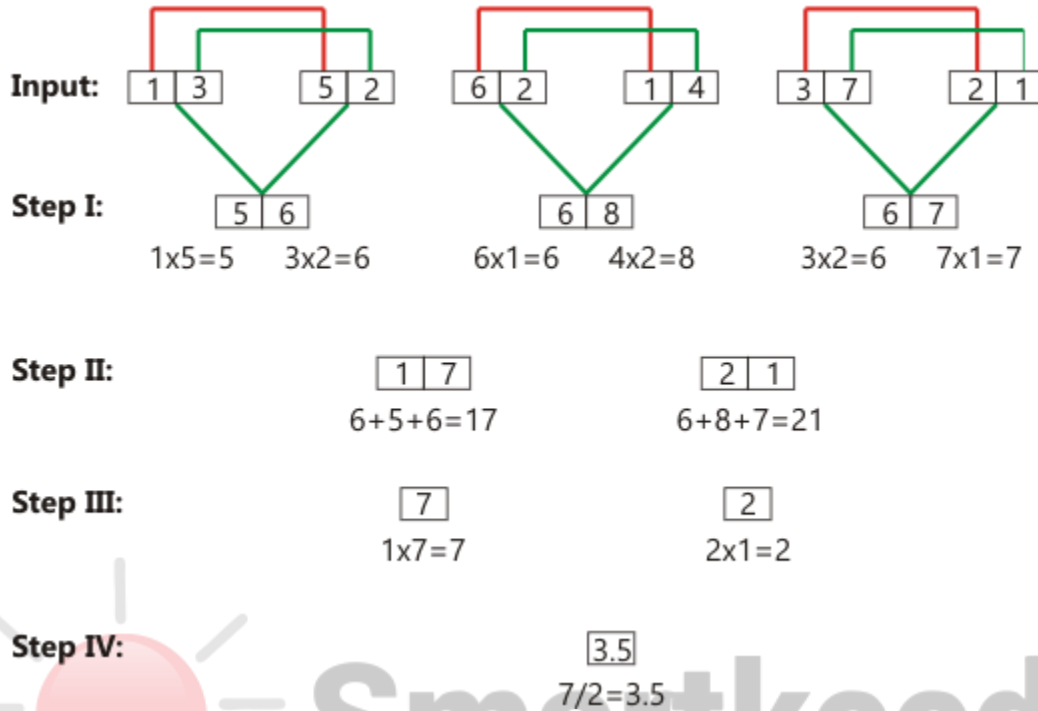
References:

Now we are on our final step which is $9 \div 2 = 4.5$



Inferences:

So we can use the same pattern in our final solution $7 \div 2 = 3.5$



126. Following the common explanation, we can say that 3.5 is the last step.

Hence, the correct answer is option C.

127. The sum of the numbers of step III is 9.

Hence, the correct answer is option A.

128. If we do half of each number in step II, the difference of those numbers will be 2.

Hence, the correct answer is option D.

129. 67 is in step I.

Hence, the correct answer is option D.

130. The resultant number will be 31.5

Hence, the correct answer is option A.

Common Explanations (131-135):

Reference:

Input: drink 25 milk 38 daily 47

daily drink milk 25 38 47

25 11 11 10 24 28

milk drink 38 daily 47 25

drink milk daily 47 25 38

I. The step that starts with a word that has even number of letters is an odd numbered step.

II. The step number of the step that starts as well as ends with a number is a perfect square.

III. The step that ends with a prime number is below at least two steps.

IV. The step that ends with a perfect square is not the second last step.

Inference:

As per condition III, step "daily drink milk 25 38 47" could either be step 3 or step 4.

As per condition II, step "25 11 11 10 24 28" could either be step 1 or 4.

As per condition I, step "milk drink 38 daily 47 25" could either be step 1 or step 3, but as per condition IV, we can say that it is not step 3. Thus it will be step 1.

Thus we can say that step "25 11 11 10 24 28" is step 4.

With this it is confirmed that step "daily drink milk 25 38 47" is step 3.

So the remaining step "drink milk daily 47 25 38" will be step 2.

Input: drink 25 milk 38 daily 47

Step 1: milk drink 38 daily 47 25

Step 2: drink milk daily 47 25 38

Step 3: daily drink milk 25 38 47

Step 4: 25 11 11 10 24 28

Change in words: Words are rearranged at the extreme left end on the basis of reverse dictionary order.

Change in numbers: Numbers are rearranged at the extreme right end as per ascending order.

Reference:

Input: drink 25 milk 38 daily 47
Step 1: milk drink 38 daily 47 25

Inference:

Input: goods 32 import 58 46 value
Step 1: value goods import 58 46 32

Reference:

Step 1: milk drink 38 daily 47 25
Step 2: drink milk daily 47 25 38

Inference:

Step 1: value goods import 58 46 32
Step 2: import value goods 58 32 46

Reference:

Step 2: drink milk daily 47 25 38
Step 3: daily drink milk 25 38 47

Inference:

Step 2: import value goods 58 32 46
Step 3: goods import value 32 46 58

Reference:

Step 3: daily drink milk 25 38 47
Step 4: 25 11 11 10 24 28

Inference:

**The words are converted into the numerical value of their last letter considering A-Z as 1-26.
The numbers are changed to the product of digits of the number in step 3.**

Step 3: goods import value 32 46 58
Step 4: 19 20 5 6 24 40

Final Output:

Input: goods 32 import 58 46 value
Step 1: value goods import 58 46 32
Step 2: import value goods 58 32 46
Step 3: goods import value 32 46 58
Step 4: 19 20 5 6 24 40



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The Question Bank

131. Following the common explanation, we have

'value' is third to the left of 58 in step 3.

Hence option B is correct.

132. Following the common explanation, we have

'5' is fourth from right end in step 4.

Hence option D is correct.

133. Following the common explanation, we have

value comes exactly between import and goods in step 2.

Hence option A is correct.

134. Following the common explanation, we have

32 is on the immediate right of the fourth element from left end in step 2.

Hence option C is correct.

135. Following the common explanation, we have

The sum of 3rd element from the left end and 2nd element from right end in step IV is $5 + 24 = 29$

Hence, option A is correct.



Common Explanations (136-140):

Reference:

Input: 36 64 27 72 91 28 86 65

Step 1: 28 37 45 19 63 58 21

Inference:

Difference of two adjacent numbers of input is taken to for the numbers of step 1.

Input: 23 46 87 64 72 35 98 12

Step 1: 23 41 23 8 37 63 86

Reference:

Step 1: 28 37 45 19 63 58 21

Step 2: 65 82 64 82 121 79

Inference:

Sum of two adjacent numbers of Step 1 is taken to for the numbers of step 2.

Step 1: 23 41 23 8 37 63 86

Step 2: 64 64 31 45 100 149

Reference:

Step 2: 65 82 64 82 121 79

Step 3: 14 39 18

Inference:

Difference of first and sixth numbers from left end is taken to form the first number of step 3.

Then difference of second and fifth numbers from left end is taken to form the second number of step 3.

Then difference of third and fourth numbers from left end is taken to form the third number of step 3.

Step 2: 64 64 31 45 100 149

Step 3: 85 36 14



Reference:

Step 3: 14 39 18

Step 4: 3 288

Inference:

Product of the tens digit of all the three numbers of step 3 is taken to form the first number of step 4.

Product of the unit digit of all the three numbers of step 3 is taken to form the second number of step 4.

Step 3: 85 36 14

Step 4: 24 120

Reference:

Step 4: 3 288

Step 5: 6

Inference:

Sum of the digits of both the numbers is taken separately and then greater number is divided by the smaller number.

Step 4: 24 120

Step 5: 2

Final output:

Input: 23 46 87 64 72 35 98 12

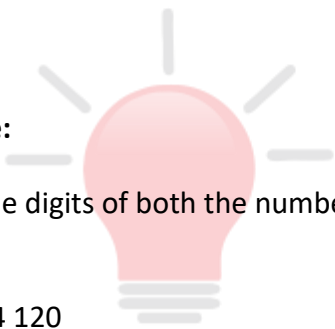
Step 1: 23 41 23 8 37 63 86

Step 2: 64 64 31 45 100 149

Step 3: 85 36 14

Step 4: 24 120

Step 5: 2



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The Question Bank



136. Following the common explanation, we have

The second highest and second lowest numbers of step 2 are 100 and 45.

Required sum is 145.

Hence option C is correct.

137. Following the common explanation, we have

2 numbers in step 1 are fully divisible by 2.

Hence option B is correct.

138. Following the common explanation, we have

First and last numbers of step 3 are 85 and 14

Required difference is 71.

Hence option D is correct.

139. Following the common explanation, we have

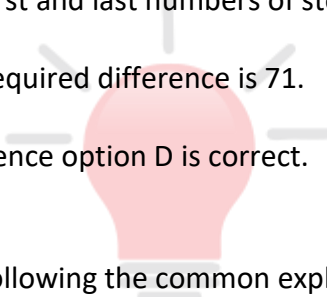
31 is the third number from left end in step 2.

Hence option A is correct.

140. Following the common explanation, we have

48 is the odd one out as 48 cannot be seen in any of the steps.

Hence option D is correct.



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The Question Bank



Common Explanations (141-145):

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



141. Following the common explanation, we have

require is third to the left of 51 in step III.

Hence option C is correct.

142. 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.

143. Following the common explanation, we have

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

Hence option B is correct.

144. 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.

145. 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.



Common Explanations (146-150):

Logic: The logic for rearrangement works in two steps.

Step 1: Firstly all the words are arranged at extreme left end in descending order of number of letters within the word. Only one word is rearranged at each step.

Step 2: When the arrangement is arranged as per descending order of number of letters of the word then all the words are arranged as per alphabetical order such that the word that comes first as per alphabetical order is shifted to extreme left end then the second word as per alphabetical order is shifted second from left end and so on. Only one word is arranged at one step.

Reference:

Input : Letters Received Box Post Office

Step I: Received Letters Box Post Office

Inference:

Input: Online Recharge Website Pay Less

Step I: Recharge Online Website Pay Less

Reference:

Step I: Received Letters Box Post Office

Step II: Received Letters Office Box Post

Inference:

Step I: Recharge Online Website Pay Less

Step II: Recharge Website Online Pay Less

Reference:

Step II: Received Letters Office Box Post

Step III: Received Letters Office Post Box

Step IV: Box Received Letters Office Post

By Step IV, we can see that all the words are arranged as per descending order of number of letters.

Inference:

Step II: Recharge Website Online Pay Less

Step III: Recharge Website Online Less Pay

In Step III, we can see that all the words are arranged as per descending order of number of letters, thus from step IV onwards we will rearrange them in alphabetical order.

Reference:

Step IV: Box Received Letters Office Post

Step V : Box Letters Received Office Post



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Inference:

Step III: Recharge Website Online Less Pay

Step IV: Less Recharge Website Online Pay

Reference:

Step V : Box Letters Received Office Post

Step VI: Box Letters Office Received Post

Inference:

Step IV: Less Recharge Website Online Pay

Step V: Less Online Recharge Website Pay

Reference:

Step VI: Box Letters Office Received Post

Step VII: Box Letters Office Post Received

Inference:

Step V: Less Online Recharge Website Pay

Step VI: Less Online Pay Recharge Website

The given arrangement is complete as all the words are now arranged as per alphabetical order. Thus Step VI is the final output.

Final Output:

Input: Online Recharge Website Pay Less

Step I: Recharge Online Website Pay Less

Step II: Recharge Website Online Pay Less

Step III: Recharge Website Online Less Pay

Step IV: Less Recharge Website Online Pay

Step V: Less Online Recharge Website Pay

Step VI: Less Online Pay Recharge Website



146. Following the common explanation, we have

The fifth word from right end in step III is Recharge and second word to its right is "Online".

Hence option C is correct.

147. Following the common explanation, we have

Less Recharge Website Online Pay is the step IV of the output.

Hence option B is correct.

148. Following the common explanation, we have

"Less Online Pay Recharge Website" is the final step of the output.

Hence option D is correct.

149. Following the common explanation, we have

Pay is second to the right of Website in step II.

Hence option B is correct.

150. Following the common explanation, we have

In step V, Less is second to the left of Recharge.

Hence option C is correct.



Common Explanations (151-155):

Change in Words: Words are rearranged as per ascending order of number of letters. Words are arranged at extreme right end.

Change in Numbers: The numbers are changed as per ascending order of the product of digits. Numbers are arranged at extreme left end.

Reference:

Input : toy 82 craft 73 artist 55 fragment 68 wrinkle 27

Step I : 27 82 craft 73 artist 55 fragment 68 wrinkle toy

Inference:

Here "28" is the number which has the lowest product of digits (16) and "jam" is the word with lowest number of letters.

Input : action 46 frog 67 jam 28 flatter 59 terrific 39

Step I : 28 action 46 frog 67 flatter 59 terrific 39 jam

Reference:

Step I : 27 82 craft 73 artist 55 fragment 68 wrinkle toy

Step II : 82 27 73 artist 55 fragment 68 wrinkle toy craft

Inference:

Here "46" is the number which has the second lowest product of digits (24) and "frog" is the word with second lowest number of letters.

Step I : 28 action 46 frog 67 flatter 59 terrific 39 jam

Step II: 46 28 action 67 flatter 59 terrific 39 jam frog

Reference:

Step II : 82 27 73 artist 55 fragment 68 wrinkle toy craft

Step III: 73 82 27 55 fragment 68 wrinkle toy craft artist



Inference:

Here "39" is the number which has the third lowest product of digits (27) and "action" is the word with third lowest number of letters.

Step II: 46 28 action 67 flatter 59 terrific 39 jam frog

Step III: 39 46 28 67 flatter 59 terrific jam frog action

Reference:

Step III: 73 82 27 55 fragment 68 wrinkle toy craft artist

Step IV: 55 73 82 27 fragment 68 toy craft artist wrinkle

Inference:

Here "67" is the number which has the fourth lowest product of digits (42) and "flatter" is the word with fourth lowest number of letters.

Step III: 39 46 28 67 flatter 59 terrific jam frog action

Step IV: 67 39 46 28 59 terrific jam frog action flatter

Reference:

Step IV: 55 73 82 27 fragment 68 toy craft artist wrinkle

Step V : 68 55 73 82 27 toy craft artist wrinkle fragment

Inference:

Here "59" is the number which has the fifth lowest product of digits (45) and "terrific" is the word with fifth lowest number of letters.

Step IV: 67 39 46 28 59 terrific jam frog action flatter

Step V: 59 67 39 46 28 jam frog action flatter terrific

Final Output:

Input : action 46 frog 67 jam 28 flatter 59 terrific 39

Step I : 28 action 46 frog 67 flatter 59 terrific 39 jam

Step II: 46 28 action 67 flatter 59 terrific 39 jam frog

Step III: 39 46 28 67 flatter 59 terrific jam frog action

Step IV: 67 39 46 28 59 terrific jam frog action flatter

Step V: 59 67 39 46 28 jam frog action flatter terrific



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151. Following the common explanation, we have

"flatter" is third to the left of 39 in step II.

Hence option B is correct.

152. Following the common explanation, we have

"terrific" is third to the right of 46 in step IV.

Hence option D is correct.

153. Following the common explanation, we have

11 is the difference between the second element from left end in step II and second element from right end in step I.

Hence option C is correct.

154. Following the common explanation, we have

terrific is the only word towards the left of "jam" in step IV.

Hence option A is correct.

155. Following the common explanation, we have

'28' comes exactly between 39 and frog in the final output.

Hence option B is correct.



Common Explanations (156-160):

Input: 23 47 52 69 71
Step I: 16 38 20 64 17
Step II: 16 38 64 20 17
Step III: 21 33 30 06 24
Step IV: 06 21 24 30 33
Step V: 11 27 31 38 42

Step I. Multiply the digits of each two digit number given in Input within itself and add 10 to each resultant.

Step II. Place the biggest number acquired in Step I in the middle.

Step III. Add the digits of each two digit number acquired in Step II within itself and multiply the resultant by 3.

Step IV. Place the numbers in ascending order.

Step V. Add consecutive natural number (starting from 5, 6) to each number acquired in Step IV.

Based on the same rule, we get the following steps for the given Input:

Input: 56 29 34 72 41
Step I: 40 28 22 24 14
Step II: 28 22 40 24 14
Step III: 30 12 12 18 15
Step IV: 12 12 15 18 30
Step V: 17 18 22 26 39

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156. Based on the following illustration, we get that the number that comes in the middle of Step II: 40

Option B is hence the correct answer.

157. Following the illustration below we can say that '16' is not present in Step IV for the given input.

Option D is hence the correct answer.

158. Following the common explanation, we have

Clearly, the output: 30 12 12 18 15 is acquired at Step III.

Option C is hence the correct answer.

159. Following the common explanation, we have

Evidently, all the given options are false with respect to the position of 24 in Step II.

Hence, option E is correct.

160. Following the common explanation, we have

In Step II, the digits of each number are being added to themselves within the number and then 10 is being added to the resultant.

Thus, 47 will become = $(4 + 7) \times 3 = 33$

Hence, option A is correct.



Common Explanations (161-165):

Reference:

Input: toy for 35 27 61 97 weight stroke

Step I: 61 toy for 35 27 97 weight stroke

Step II: 61 35 toy for 27 97 weight stroke

Step III: 61 35 27 toy for 97 weight stroke

Step IV: 61 35 27 97 toy for weight stroke

Step V: 61 35 27 97 for toy weight stroke

Step VI: 61 35 27 97 for stroke toy weight

If we observe the given steps, the following rules are being applied:

Step I. In each step, the number the sum of the digits of which is the lowest, is being arranged at extreme left.

Step II. Next bigger number is arranged to the immediate right of the number achieved in previous step and we carry on in the same manner till we achieve all the numbers in ascending order. This continues till Step IV.

Step V. The word that comes prior to the other given words is placed right after the last number and we keep on arranging all the words in such a manner till we get in ascending order.

Following the rules describe above, we get the steps for the given input as:

Input: 73 jam trim 29 31 clear team 81

Step I: 31 73 jam trim 29 clear team 81

Step II: 31 81 73 jam trim 29 clear team

Step III: 31 81 73 29 jam trim clear team

Step IV: 31 81 73 29 clear jam trim team

Step IV: 31 81 73 29 clear jam team trim

And Step V is the last step of the rearrangement.



161. Following common explanation, we get that the term '73' is 3rd from the left end in the step III.

Option A is hence the correct answer.

162. Following common explanation, we get '5' as the correct answer.

Option C is hence the correct answer.

163. Following common explanation we get that it is '29' which is the 4th term from the left end in step IV.

Option E is hence the correct answer.

164. Following the given condition, we get step I as:

Step I: 81 73 jam trim 29 39 clear team

Clearly, '39' is third from the right end.

Option B is hence the correct answer.

165. Following the common explanation, we can observe that '81' is 7th from the right end in step II.

Option B is hence the correct answer.



Common Explanations (166-170):

Change in words: The words are rearranged in descending order of number of consonants in a word. Words are placed at extreme left end of the arrangement.

Change in numbers: Numbers are arranged in ascending order at left end just next to the rearranged word.

Note- Only one word and one number is changed at one step. Change in words and numbers takes place at every step.

Reference:

Input: grief 37 myth 84 rubbish 53 constant 45 persistence 26

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Inference:

Input: label 51 rhythm 22 sabotage 82 complete 91 sufficiency 16

Step I: sufficiency 16 label 51 rhythm 22 sabotage 82 complete 91

Reference:

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Inference:

Step I: sufficiency 16 label 51 rhythm 22 sabotage 82 complete 91

Step II: rhythm 22 sufficiency 16 label 51 sabotage 82 complete 91

Reference:

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Inference:

Step II: rhythm 22 sufficiency 16 label 51 sabotage 82 complete 91

Step III: complete 51 rhythm 22 sufficiency 16 label sabotage 82 91

Reference:

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Inference:

Step III: complete 51 rhythm 22 sufficiency 16 label sabotage 82 91

Step IV: sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91

Reference:

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Step V: grief 84 myth 53 rubbish 45 constant 37 persistence 26

Inference:

Step IV: sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91

Step V: label 91 sabotage 82 complete 51 rhythm 22 sufficiency 16

166. Following common explanation, we get that

'sabotage' is on the immediate right of '91' in step V.

Hence option B is correct.

167. Following common explanation, we get that

"sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91" is step IV.

Hence option C is correct.

168. Following common explanation we get that

'rhythm' comes exactly between 'complete' and 'sufficiency' in step III.

Hence option B is correct.

169. Following common explanation we get that

3 words are to the left of 51 in step II.

Hence option A is correct.

170. Following the common explanation, we get that

The even numbers that come between 'label' and 'sufficiency' in step V are 82 and 22.

Required sum is 104.

Hence option D is correct.



Common explanation (171 – 175) :

Change in words: The words are rearranged in descending order of number of consonants in a word. Words are placed at extreme left end of the arrangement.

Change in numbers: Numbers are arranged in ascending order at left end just next to the rearranged word.

Note- Only one word and one number is changed at one step. Change in words and numbers takes place at every step.

Reference:

Input: grief 37 myth 84 rubbish 53 constant 45 persistence 26

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Inference:

Input: label 51 rhythm 22 sabotage 82 complete 91 sufficiency 16

Step I: sufficiency 16 label 51 rhythm 22 sabotage 82 complete 91

Reference:

Step I: persistence 26 grief 37 myth 84 rubbish 53 constant 45

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Inference:

Step I: sufficiency 16 label 51 rhythm 22 sabotage 82 complete 91

Step II: rhythm 22 sufficiency 16 label 51 sabotage 82 complete 91

Reference:

Step II: constant 37 persistence 26 grief myth 84 rubbish 53 45

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Inference:

Step II: rhythm 22 sufficiency 16 label 51 sabotage 82 complete 91

Step III: complete 51 rhythm 22 sufficiency 16 label sabotage 82 91

Reference:

Step III: rubbish 45 constant 37 persistence 26 grief myth 84 53

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Inference:

Step III: complete 51 rhythm 22 sufficiency 16 label sabotage 82 91

Step IV: sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91

Reference:

Step IV: myth 53 rubbish 45 constant 37 persistence 26 grief 84

Step V: grief 84 myth 53 rubbish 45 constant 37 persistence 26

Inference:

Step IV: sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91

Step V: label 91 sabotage 82 complete 51 rhythm 22 sufficiency 16

171. Following common explanation, we get that

'sabotage' is on the immediate right of '91' in step V.

Hence option B is correct.

172. Following common explanation, we get that

"sabotage 82 complete 51 rhythm 22 sufficiency 16 label 91" is step IV.

Hence option C is correct.

173. Following common explanation we get that

'rhythm' comes exactly between 'complete' and 'sufficiency' in step III.

Hence option B is correct.

174. Following common explanation we get that

3 words are to the left of 51 in step II.

Hence option A is correct.

175. Following the common explanation, we get that

The even numbers that come between 'label' and 'sufficiency' in step V are 82 and 22.

Required sum is 104.

Hence option D is correct.



Common Explanations (176-180):

Reference:

Input : floating current boat swing stream and sail along

Step I : 16 14 8 10 12 6 8 10

Inference:

The words are changed to numbers on the basis of their number of letters. The logic performed here is : **Multiplication**.

The number of letters of each word is multiplied by 2 and written in the same order as their respective words are written from left to right.

For example: floating has 8 letters , so its respective numerical value will be 16.

Performing the above mentioned logic we get the following values for step I.

Input : season come and go weather remain same forever

Step I : 12 8 6 4 14 12 8 14

Reference:

Step I : 16 14 8 10 12 6 8 10

Step II : 28 20 16 20

Inference:

The numbers of step I are added in order to obtain the step II such that the first number from left end is added with the fifth number from left end, second number from left end with sixth number from left end and so on.

So, the logic performed is : **Addition**.

Performing the above mentioned logic we get the following values for step II.

Step I : 12 8 6 4 14 12 8 14

Step II : 26 20 14 18

Reference:

Step II : 28 20 16 20

Step III: 8 4

Inference:

The difference of the numbers of step II is obtained such that the difference of first and second number from left end is taken. Then difference of third and fourth numbers is taken.

So, the logic performed is : **Subtraction**.



Performing the above mentioned logic we get the following values for step III.

Step II : 26 20 14 18

Step III: 6 4

Reference:

Step III: 8 4

Step IV: 4

Inference:

The greater number of step III is divided by the smaller number of step III and then the obtained dividend is doubled.

So, the logic performed is : **Division**.

Performing the above mentioned logic we get the following values for step III.

Step III: 6 4

Step IV: 3

Final Output:

Input : season come and go weather remain same forever

Step I : 12 8 6 4 14 12 8 14

Step II : 26 20 14 18

Step III: 6 4

Step IV: 3

176. Following common explanation, we get that

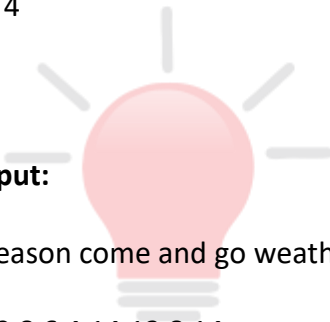
9 is the third multiple of 3, which is the final output.

Hence option C is correct.

177. Following common explanation, we get that

13 is not among the given numbers, thus the odd one out.

Hence option B is correct.



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178. Following common explanation we get that

If in the given input 'and' is replaced by 'but', then nothing will change because number of letters in 'and' and 'but' are same.

Hence option D is correct.

179. Following common explanation we get that

Second value from right end in step I is 8.

Second value from right end in step III is 6.

Required sum = 14.

Hence option A is correct.

180. Following the common explanation, we get that

Final output is 3, so after subtracting 3 from each value of step II, it will become:

23 17 11 15

Hence option C is correct.

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Common Explanations (181 -185):

The words are arranged according to the English alphabetical series and are placed at the left end in each step.

Input : story For around on was He at

Step I: around story For on was He at

Step II: around at story for on was he

Step III: around at for story on was he

Step IV: around at for he story on was

Step V: around at for he on story was

181. From common explanation, we can see that 'Step IV: is around at for he story on was'

Hence, option C is correct answer.

182. From common explanation, we can see that 'Step III: an and every for peer to'

Hence, option B is correct answer.

183. From common explanation we can see 'Step V' is the last but one step.

Hence, option D is correct.

184. From common explanation, we can see 'step IV' will be the last step.

Hence, option E is the correct answer.

185. From common explanation, we can see that 'the third word from the right end in step III ' will be the 'over' step.

Hence, option C is the correct answer.



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186. The numbers are arranged in descending order while the words are arranged in alphabetical order alternately. The position of only one term is altered at each step.

Input	:	host	15	32	page	43	over	mother	92
Step I	:	92	host	15	32	page	43	over	mother
Step II	:	92	host	43	15	32	page	over	mother
Step III	:	92	host	43	mother	15	32	page	over
Step IV	:	92	host	43	mother	32	15	page	over
Step V	:	92	host	43	mother	32	over	15	page

Clearly, step V is the last step and step IV is the last but one.

Hence, Option A is correct.

187. The numbers are arranged in descending order while the words are arranged in alphabetical order alternately. The position of only one term is altered at each step.

Step II	:	67	cat	12	25	dog	fight	man	42
Step III	:	67	cat	42	12	25	dog	fight	man
Step VI	:	67	cat	42	dog	12	25	fight	man
Step V	:	67	cat	42	dog	25	12	fight	man

Hence, Option B is correct.

188. The numbers are arranged in descending order while the words are arranged in alphabetical order alternately. The position of only one term is altered at each step.

Input	:	world	23	new	47	major	13	62	desk
Step I	:	62	world	23	new	47	major	13	desk
Step II	:	62	desk	world	23	new	47	major	13
Step III	:	62	desk	47	world	23	new	major	13
Step VI	:	62	desk	47	major	world	23	new	13
Step V	:	62	desk	47	major	23	world	new	13

Hence, Option C is correct.



189. The numbers are arranged in descending order while the words are arranged in alphabetical order alternately. The position of only one term is altered at each step.

Step III	:	81	boat	73	wheel	spike	dancer	32	59
Step VI	:	81	boat	73	dancer	wheel	spike	32	59
Step V	:	81	boat	73	dancer	59	wheel	spike	32
Step VI	:	81	boat	73	dancer	59	spike	wheel	32
Step VII	:	81	boat	73	dancer	59	spike	32	wheel

Clearly, Step VII is the last step, thus, four more steps are required to complete the rearrangement.

Hence, Option C is correct.

190. The numbers are arranged in descending order while the words are arranged in alphabetical order alternately. The position of only one term is altered at each step.

Step III	:	81	boat	73	wheel	spike	dancer	32	59
Step VI	:	81	boat	73	dancer	wheel	spike	32	59
Step V	:	81	boat	73	dancer	59	wheel	spike	32
Step VI	:	81	boat	73	dancer	59	spike	wheel	32
Step VII	:	81	boat	73	dancer	59	spike	32	wheel

Hence, Option B is correct.

191. The words are arranged in reverse alphabetical order while numbers are arranged in ascending order alternately.

Step II :	Zebra	12	bank	carriage	46	31	29	dusk
Step III :	Zebra	12	dusk	bank	carriage	46	31	29
Step IV :	Zebra	12	dusk	29	bank	carriage	46	31
Step V :	Zebra	12	dusk	29	carriage	bank	46	31
Step VI :	Zebra	12	dusk	29	carriage	31	bank	46

Clearly, step VI is the last step. So, step V is the last but one.

Hence, option A is correct.



192. The words are arranged in reverse alphabetical order while numbers are arranged in ascending order alternately.

Input :	age	die	72	53	35	hold	goal	26
Step I :	hold	age	die	72	53	35	goal	26
Step II :	hold	26	age	die	72	53	35	goal
Step III :	hold	26	goal	age	die	72	53	35
Step IV :	hold	26	goal	35	age	die	72	53
Step V :	hold	26	goal	35	die	age	72	53
Step VI :	hold	26	goal	35	die	53	age	72

Clearly, Step VI is the last step for the given input.

Hence, option C is correct.

193. The words are arranged in reverse alphabetical order while numbers are arranged in ascending order alternately.

Step II :	win	12	92	for	81	always	36	home
Step III :	win	12	home	92	for	81	always	36
Step IV :	win	12	home	36	92	for	81	always
Step V :	win	12	home	36	for	92	81	always
Step VI :	win	12	home	36	for	81	92	always
Step VII :	win	12	home	36	for	81	always	92

Hence, option E is correct.

194. Since the terms can be rearranged in several ways, so it is not possible to determine the input accurately.

Hence, option D is correct.

195. The words are arranged in reverse alphabetical order while numbers are arranged in ascending order alternately.

Input: 36 Sky 19 Night 90 55 Bear Lotus White
Step I: White 36 Sky 19 Night 90 55 Bear Lotus
Step II: White 19 36 Sky Night 90 55 Bear Lotus
Step III: White 19 Sky 36 Night 90 55 Bear Lotus
Step IV: White 19 Sky 36 Night 55 90 Bear Lotus
Step V: White 19 Sky 36 Night 55 Lotus 90 Bear

Hence, option A is the correct answer.

Common Explanations (196-200):

Input	:	class	25	war	15	race	73	heap	58	just	88	take	38
Step I	:	88	class	25	war	15	race	73	heap	58	just	take	38
Step II	:	88	25	war	15	race	73	heap	58	just	take	38	class
Step III	:	88	73	25	war	15	race	heap	58	just	take	38	class
Step IV	:	88	73	25	war	15	race	58	just	take	38	class	heap
Step V	:	88	73	58	25	war	15	race	just	take	38	class	heap
Step VI	:	88	73	58	25	war	15	race	take	38	class	heap	just
Step VII	:	88	73	58	38	25	war	15	race	take	class	heap	just
Step VIII	:	88	73	58	38	25	war	15	take	class	heap	just	race
Step IX	:	88	73	58	38	25	15	war	take	class	heap	just	race
Step X	:	88	73	58	38	25	15	war	class	heap	just	race	take
Step XI	:	88	73	58	38	25	15	class	heap	just	race	take	war

- 196.** After careful analysis of the given input and various steps of rearrangement, it is evident that in the first step the highest number is placed at the extreme left position and in the second step the word which comes first in the alphabetical order is placed at the extreme right position. In the next step second highest number is placed at the second position from the left. After that step the word which comes second in the alphabetical order is placed at the extreme right position. These two steps are continued alternatively till all the numbers get arranged in the descending order from the left and all the words get arranged in alphabetical order after the numbers.

Input	:	class	25	war	15	race	73	heap	58	just	88	take	38
Step I	:	88	class	25	war	15	race	73	heap	58	just	take	38
Step II	:	88	25	war	15	race	73	heap	58	just	take	38	class
Step III	:	88	73	25	war	15	race	heap	58	just	take	38	class
Step IV	:	88	73	25	war	15	race	58	just	take	38	class	heap
Step V	:	88	73	58	25	war	15	race	just	take	38	class	heap
Step VI	:	88	73	58	25	war	15	race	take	38	class	heap	just
Step VII	:	88	73	58	38	25	war	15	race	take	class	heap	just
Step VIII	:	88	73	58	38	25	war	15	take	class	heap	just	race
Step IX	:	88	73	58	38	25	15	war	take	class	heap	just	race
Step X	:	88	73	58	38	25	15	war	class	heap	just	race	take
Step XI	:	88	73	58	38	25	15	class	heap	just	race	take	war

The word 'war' is sixth from the left end in step VIII.

- 197.** From common explanation, we can Step XI is the last step 'and 25' is the ninth from the right in Step VI.

Hence, option B is correct.

- 198.** From common explanation, we can '15' is seventh from the right end in Step IX.

Hence, option D is correct.

199. From common explanation, we can Eleven Steps were required to complete the arrangement.

Hence, option A is correct.

200. From common explanation, we have Option (C) is the Step X.

Hence, option C is correct.



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