

Solutions

Solutions (1-5):

In the following machine input-output a word and a number is arranged in alternate steps. First the word is arranged and then the number is arranged.

For words- the words are arranged according to alphabetical order.

For numbers- the numbers are arranged in increasing order.

Input : next 57 problem 82 14 trend 02 purchase growth 41

Step I :growth next 57 problem 82 14 trend 02 purchase 41

Step II :growth 02 next 57 problem 82 14 trend purchase 41

Step III : growth 02 next 14 57 problem 82 trend purchase 41

Step IV : growth 02 next 14 problem 57 82 trend purchase 41

Step V : growth 02 next 14 problem 41 57 82 trend purchase

Step VI : growth 02 next 14 problem 41 purchase 57 82 trend

Step VII : growth 02 next 14 problem 41 purchase 57 trend 82

S1. Ans.(d)

S2. Ans.(c)

S3. Ans.(d)

S4. Ans.(c)

S5. Ans.(d)



Solutions (6-10):

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

(a) For words (starting by a vowel) arrangement- Vowels are arranged in increasing alphabetical order from the left end. In step I we arrange the least Vowel from the left end, And in step we arrange the second least vowel according to the alphabetical series. This process continues until all the words will be arranged

(b) For words (starting by a consonants) arrangement- Consonants are arranged in decreasing alphabetical order from the right end.

Input- earn rear only every old student reason person peon alpha

Step I - alpha earn rear only every old reason person peon student

Step II- earn alpha rear only every old person peon student reason

Step III- every earn alpha only old person peon student reason rear

Step IV- old every earn alpha only peon student reason rear person

Step V- only old every earn alpha student reason rear person peon

S6. Ans.(b)

S7. Ans.(c)

S8. Ans.(b)

S9. Ans.(d)

S10. Ans.(d)



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Solutions (11-15):

In the given machine input output

For words- Words are arranged at left end in increasing order of the number of letters in them and if the number of letters in the word are same then they are arrange according to alphabetical order. The word having least letters is arranged first from left end.

For Numbers- The numbers are placed 2nd from the left end in increasing order in each step. Odd numbers are arranged in odd numbered step and even numbers are arranged in even numbered step.

Input: Agra 90 Mathura 13 Delhi 28 Mumbai 47 Kanpur 69 Chennai 52

Step I Agra 13 90 Mathura Delhi 28 Mumbai 47 Kanpur 69 Chennai 52

Step II Delhi 28 Agra 13 90 Mathura Mumbai 47 Kanpur 69 Chennai 52

Step III Kanpur 47 Delhi 28 Agra 13 90 Mathura Mumbai 69 Chennai 52

Step IV Mumbai 52 Kanpur 47 Delhi 28 Agra 13 90 Mathura 69 Chennai

Step V Chennai 69 Mumbai 52 Kanpur 47 Delhi 28 Agra 13 90 Mathura

Step VI Mathura 90 Chennai 69 Mumbai 52 Kanpur 47 Delhi 28 Agra 13

S11. Ans(b)

S12. Ans(d)

S13. Ans(e)

S14. Ans(b)

S15. Ans(e)

Solutions (16-20):

In the given machine input output

Words are arranged to the left end in odd steps and in the right end in even numbered step.

Numbers are arranged to the right end in odd steps and in the left end in even numbered step.

For words- the words are arranged in increasing order according to the number of vowels in them i.e. the word with the least number of vowel is arranged first. If any two or more than two words have same number of vowels then they are arranged according to the alphabetical series.

For Numbers- The even numbers are arranged in increasing order in odd steps. The odd numbers are arranged in increasing order in even numbered step.

Input: 12 determine 01 cannot 56 apple 72 tiffin 83 coffee

Step I apple determine 01 56 cannot 72 tiffin 83 coffee 12

Step II 01 apple determine 56 72 tiffin 83 coffee 12 cannot

Step III tiffin 01 apple determine 72 83 coffee 12 cannot 56

Step IV 83 tiffin 01 apple determine 72 12 cannot 56coffee

Step V determine 83 tiffin 01 apple 12 cannot 56coffee 72

S16. Ans(a)

S17. Ans(c)

S18. Ans(e)

S19. Ans(a)

S20. Ans(b)

Solutions (21-25):

In each step a number and a word is arranged simultaneously.

The words are placed at leftmost end and numbers at right most end in odd steps.

The words are placed at rightmost end and numbers at left most end in even steps.

(a) For words arrangement- the words are arranged in increasing order of the number of letters in them. First words having even number of letters is arranged first followed by words having odd number of letters in the same pattern.

(b) For numbers- the numbers are arranged in increasing order.

Input- 38 clerk 51 design 20 markets 43 replaced

Step I : design 38 clerk 51 markets 43 replaced 20

Step II : 38 design clerk 51 markets 43 20 replaced

Step III: clerk 38 design 51 markets 20 replaced 43

Step IV: 51 clerk 38 design 20 replaced 43 markets

S21. Ans.(a)

S22. Ans.(e)

S23. Ans.(a)

S24. Ans.(a)

S25. Ans.(c)

Solutions (26-30):

The machine rearranges words and numbers in alternative steps. In odd steps words are arranged while in even steps numbers are arranged.

For words- The words are arranged at both the ends according to the number of letters such that the word containing highest number of letter is arranged from left and the 2nd highest on right end and so on.

For numbers- First prime numbers are arranged in ascending order from both ends (left to right) followed by composite numbers are in next step.

Input: 12 salary increments 83 58 incentive 37 delay

Step I: increments 12 salary 83 58 37 delay incentive

Step II: 37 increments 12 salary 58 delay incentive 83

Step III: salary 37 increments 12 58 incentive 83 delay

Step IV: 12 salary 37 increments incentive 83 delay 58

S26. Ans.(d)

S27. Ans.(d)

S28. Ans.(c)

S29. Ans.(c)

S30. Ans.(c)

