

Q.1 How many numbers are placed to the right of 93 in Step VI?

Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 64 Zenith 37 Drift 92 Clutch 48 Mirage 25 Falcon 81 Timber

Step I: cchltu 64 Zenith 37 Drift 92 48 Mirage 25 Falcon Timber 18

Step II: dfirt cchltu 64 Zenith 92 48 Mirage 25 Falcon Timber 18 73

Step III: acflno dfirt cchltu 64 Zenith 92 48 Mirage Timber 18 73 52

Step IV: aegimr acflno dfirt cchltu 64 Zenith 48 Timber 18 73 52 29

Step V: beimrt aegimr acflno dfirt cchltu Zenith 48 18 73 52 29 46

Step VI: ehintz beimrt aegimr acflno dfirt cchltu 18 73 52 29 46 84

Step VI is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

A. One

B. Two

C. Three

D. Four

E. Five

Answer: C

Sol:

Sol.

Logic here is:

For Words: In this arrangement, in each step the word that comes first in alphabetical (A to Z) order is selected from the given input. The letters of that word are arranged in alphabetical order and the word is placed at the extreme left side. This process continues step by step for all the words.

For numbers: First all odd numbers are selected in descending order (largest to smallest), their digits are reversed, and they are placed one by one at the extreme right end. After all odd numbers are used, even numbers are taken in descending order, their digits are reversed, and they are placed at the extreme right in each step.

For example:

Step I

Word → Avalanche

Alphabetical letters → aaacehlnv

Number → 79 → 97

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

Step I: aaacehlnv 12 Glacier 64 Moraine 39 Crevasse 47 Lantern 98 Harbor 97

Step II: aceerssv aaacehlnv 12 Glacier 64 Moraine 39 Lantern 98 Harbor 97 74

Step III: acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 98 Harbor 97 74 93

Step IV: abhorr acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 97 74 93 89

Step V: aelnnrt abhorr acegilr aceerssv aaacehlnv 12 Moraine 97 74 93 89 46

Step VI: aeimnor aelnnrt abhorr acegilr aceerssv aaacehlnv 97 74 93 89 46 21

In Step VI numbers are: 97 74 93 89 46 21

Numbers to the right of 93 → 89, 46, 21

So, three numbers are placed to the right of 93 in Step VI.

Q.2 Which word is second to the right of the element which is third from the left end in Step V?

Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 64 Zenith 37 Drift 92 Clutch 48 Mirage 25 Falcon 81 Timber

Step I: cchltu 64 Zenith 37 Drift 92 48 Mirage 25 Falcon Timber 18

Step II: dfirt cchltu 64 Zenith 92 48 Mirage 25 Falcon Timber 18 73

Step III: acflno dfirt cchltu 64 Zenith 92 48 Mirage Timber 18 73 52

Step IV: aegimr acflno dfirt cchltu 64 Zenith 48 Timber 18 73 52 29

Step V: beimrt aegimr acflno dfirt cchltu Zenith 48 18 73 52 29 46

Step VI: ehintz beimrt aegimr acflno dfirt cchltu 18 73 52 29 46 84

Step VI is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

A. acegilr

B. abhorr

C. aceerssv

D. aaacehlnv

E. aelnnrt

Answer: D

Sol:

Sol.

Logic here is:

For Words: In this arrangement, in each step the word that comes first in alphabetical (A to Z) order is selected from the given input. The letters of that word are arranged in alphabetical order and the word is placed at the extreme left side. This process continues step by step for all the words.

For numbers: First all odd numbers are selected in descending order (largest to smallest), their digits are reversed, and they are placed one by one at the extreme right end. After all odd numbers are used, even numbers are taken in descending order, their digits are reversed, and they are placed at the extreme right in each step.

For example:

Step I

Word → Avalanche

Alphabetical letters → aaacehlnv

Number → 79 → 97

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

Step I: aaacehlnv 12 Glacier 64 Moraine 39 Crevasse 47 Lantern 98 Harbor 97

Step II: aceerssv aaacehlnv 12 Glacier 64 Moraine 39 Lantern 98 Harbor 97 74

Step III: acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 98 Harbor 97 74 93

Step IV: abhorr acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 97 74 93 89

Step V: aelnnrt abhorr acegilr aceerssv aaacehlnv 12 Moraine 97 74 93 89 46

Step VI: aeimnor aelnnrt abhorr acegilr aceerssv aaacehlnv 97 74 93 89 46 21

Third word from left = acegilr.

Second to the right of acegilr is aaacehlnv

Q.3 What is the difference between the largest and smallest number in Step VI?

Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 64 Zenith 37 Drift 92 Clutch 48 Mirage 25 Falcon 81 Timber

Step I: cchltu 64 Zenith 37 Drift 92 48 Mirage 25 Falcon Timber 18

Step II: dfirt cchltu 64 Zenith 92 48 Mirage 25 Falcon Timber 18 73

Step III: acflno dfirt cchltu 64 Zenith 92 48 Mirage Timber 18 73 52

Step IV: aegimr acflno dfirt cchltu 64 Zenith 48 Timber 18 73 52 29

Step V: beimrt aegimr acflno dfirt cchltu Zenith 48 18 73 52 29 46

Step VI: ehintz beimrt aegimr acflno dfirt cchltu 18 73 52 29 46 84

Step VI is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

A. 75

B. 76

C. 77

D. 78

E. 79

Answer: B

Sol:

Sol.

Logic here is:

For Words: In this arrangement, in each step the word that comes first in alphabetical (A to Z) order is selected from the given input. The letters of that word are arranged in alphabetical order and the word is placed at the extreme left side. This process continues step by step for all the words.

For numbers: First all odd numbers are selected in descending order (largest to smallest), their digits are reversed, and they are placed one by one at the extreme right end. After all odd numbers are used, even numbers are taken in descending order, their digits are reversed, and they are placed at the extreme right in each step.

For example:

Step I

Word → Avalanche

Alphabetical letters → aaacehlnv

Number → 79 → 97

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

Step I: aaacehlnv 12 Glacier 64 Moraine 39 Crevasse 47 Lantern 98 Harbor 97

Step II: aceerssv aaacehlnv 12 Glacier 64 Moraine 39 Lantern 98 Harbor 97 74

Step III: acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 98 Harbor 97 74 93

Step IV: abhorr acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 97 74 93 89

Step V: aelnnrt abhorr acegilr aceerssv aaacehlnv 12 Moraine 97 74 93 89 46

Step VI: aeimnor aelnnrt abhorr acegilr aceerssv aaacehlnv 97 74 93 89 46 21

Largest number = 97

Smallest number = 21

Difference = 97 – 21 = 76

Q.4 How many elements are there between aaacehlnv and Lantern in Step III?

Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 64 Zenith 37 Drift 92 Clutch 48 Mirage 25 Falcon 81 Timber

Step I: cchltu 64 Zenith 37 Drift 92 48 Mirage 25 Falcon Timber 18

Step II: dfirt cchltu 64 Zenith 92 48 Mirage 25 Falcon Timber 18 73

Step III: acflno dfirt cchltu 64 Zenith 92 48 Mirage Timber 18 73 52

Step IV: aegimr acflno dfirt cchltu 64 Zenith 48 Timber 18 73 52 29

Step V: beimrt aegimr acflno dfirt cchltu Zenith 48 18 73 52 29 46

Step VI: ehintz beimrt aegimr acflno dfirt cchltu 18 73 52 29 46 84

Step VI is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

- A. One
- B. Two
- C. Three
- D. Four
- E. Five

Answer: C

Sol:

Sol.

Logic here is:

For Words: In this arrangement, in each step the word that comes first in alphabetical (A to Z) order is selected from the given input. The letters of that word are arranged in alphabetical order and the word is placed at the extreme left side. This process continues step by step for all the words.

For numbers: First all odd numbers are selected in descending order (largest to smallest), their digits are reversed, and they are placed one by one at the extreme right end. After all odd numbers are used, even numbers are taken in descending order, their digits are reversed, and they are placed at the extreme right in each step.

For example:

Step I

Word → Avalanche

Alphabetical letters → aaacehlnv

Number → 79 → 97

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

Step I: aaacehlnv 12 Glacier 64 Moraine 39 Crevasse 47 Lantern 98 Harbor 97

Step II: aceerssv aaacehlnv 12 Glacier 64 Moraine 39 Lantern 98 Harbor 97 74

Step III: acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 98 Harbor 97 74 93

Step IV: abhorr acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 97 74 93 89

Step V: aelnrt abhorr acegilr aceerssv aaacehlnv 12 Moraine 97 74 93 89 46

Step VI: aeimnor aelnrt abhorr acegilr aceerssv aaacehlnv 97 74 93 89 46 21

Step III:

acegilr (1)

aceerssv (2)

aaacehlnv (3)

12 (4)

64 (5)

Moraine (6)

Lantern (7)

Elements between aaacehlnv and Lantern:

12, 64, Moraine → 3 elements

Q.5 Which element is third to the right of Glacier in Step II?

Study the following information carefully and answer the questions given below. A number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 64 Zenith 37 Drift 92 Clutch 48 Mirage 25 Falcon 81 Timber

Step I: cchltu 64 Zenith 37 Drift 92 48 Mirage 25 Falcon Timber 18

Step II: dfirt cchltu 64 Zenith 92 48 Mirage 25 Falcon Timber 18 73

Step III: acflno dfirt cchltu 64 Zenith 92 48 Mirage Timber 18 73 52

Step IV: aegimr acflno dfirt cchltu 64 Zenith 48 Timber 18 73 52 29

Step V: beimrt aegimr acflno dfirt cchltu Zenith 48 18 73 52 29 46

Step VI: ehintz beimrt aegimr acflno dfirt cchltu 18 73 52 29 46 84

Step VI is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

- A. Moraine
- B. 39
- C. Lantern
- D. 98
- E. 64

Answer: B

Sol:

Sol.

Logic here is:

For Words: In this arrangement, in each step the word that comes first in alphabetical (A to Z) order is selected from the given input. The letters of that word are arranged in alphabetical order and the word is placed at the extreme left side. This process continues step by step for all the words.

For numbers: First all odd numbers are selected in descending order (largest to smallest), their digits are reversed, and they are placed one by one at the extreme right end. After all odd numbers are used, even numbers are taken in descending order, their digits are reversed, and they are placed at the extreme right in each step.

For example:

Step I

Word → Avalanche

Alphabetical letters → aaacehlnv

Number → 79 → 97

Input: 12 Glacier 64 Moraine 79 Harbor 39 Crevasse 47 Lantern 98 Avalanche

Step I: aaacehlnv 12 Glacier 64 Moraine 39 Crevasse 47 Lantern 98 Harbor 97

Step II: aceerssv aaacehlnv 12 Glacier 64 Moraine 39 Lantern 98 Harbor 97 74

Step III: acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 98 Harbor 97 74 93

Step IV: abhorr acegilr aceerssv aaacehlnv 12 64 Moraine Lantern 97 74 93 89

Step V: aelnnrt abhorr acegilr aceerssv aaacehlnv 12 Moraine 97 74 93 89 46

Step VI: aeimnor aelnnrt abhorr acegilr aceerssv aaacehlnv 97 74 93 89 46 21

Glacier is at position 4.

Third to the right:

5 → 64 (1st)

6 → Moraine (2nd)

7 → 39 (3rd)

So answer = 39.
