

Exercises

Q1.

Write a program, use the **pointer** to enter a sequence of integers consist N element (check input N and elements)

Output to screen:

- Maximum value of the element in array
- Minimum value of the element in array
- Sum the elements in array

Expected Output:

```
Enter N = 5
Enter elements: 3 10 9 -5 2
Maximum value of the element in array: 10
Minimum value of the element in array: -5
Sum the elements in array: 19
```

Q2.

Write a program in C to find the second smallest element in an array.

Test Data:

Input the size of array : 5

Input 5 elements in the array (value must be <9999):

element - 0 : 0

element - 1 : 9

element - 2 : 4

element - 3 : 6

element - 4 : 5

Expected Output:

The Second smallest element in the array is : 4

Q3.

Write a program that accepts a string from the user then count total number of alphabets, digits and special characters in a string and print on the screen.

Input:

Input the string: Welcome 2 fpt.edu.vn

Output :

Number of Alphabets is: 15

Number of Digits is: 1

Number of Special characters is: 4

Q4.

Write a program that accepts a string from the user then find maximum occurring character in a string.

Input:

Input the string: university

Output:

The Highest frequency of character 'i' appears number of times: 2

Q5

Write a program to read a string through keyboard and sort a string array in ascending order.

Input:

Input the string: university

Output :

After sorting the string appears like: eiinrstuvy

Q6.

Write a program in C to extract a substring from a given string

Input:

Input the string: FPT University major in software engineering

Input the position to start extraction: 5

Input the length of substring: 3

Output :

The substring retrieve from the string is: Uni

Q7.

Write a program that accepts a string through keyboard from the user then find the largest and smallest word in this string.

Input:

Input the string : FPT University major in software engineering

Expected Output :

The largest word is: engineering

The smallest word is: in