United International University



Department of Computer Science and Engineering

CSI 122 Structured Programming Language Laboratory

Section A

Spring 2020

Lab 3(Class)

1. Write a program in C to read 10 values in an array and display it in reverse order.

*Sample Input:*

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

*Sample Output:*

The numbers in reverse order are: 54 89 37 2 15 16 23 34 11 9

1. Write a program in C to separate even and odd integers in separate arrays (Assume size 10).

*Sample Input:*

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

*Sample Output:*

The even numbers are: 34 16 2 54

The odd numbers are: 9 11 23 15 37 89

1. Write a program that will take n floating point numbers as input in an array and then display the following as output.
2. Sum
3. Average
4. Maximum

*Sample Input:*

How many numbers? 10

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

*Sample Output:*

Sum: 290

Average: 29

Maximum: 89

1. Write a program that will take n integer numbers as input in an array and then insert a number in a position specified by the user in the array.

*Sample Input:*

How many numbers? 10

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

Enter number to be inserted and position: 78 4

*Sample Output:*

The result is: 9 11 34 23 78 16 15 2 37 89 54

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Section A

Fall 2019

Lab 3(Home)

1. Write a program that will take n integer numbers into an array, and then sum up all the even integers in that array.

*Sample Input:*

How many numbers? 10

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

*Sample Output:*

The sum of even numbers is: 106

1. Write a program that will take n alphabets into an array, and then count number of vowels in that array.

*Sample Input:*

How many alphabets? 10

Enter the alphabets: AKiOpreTyU

*Sample Output:*

The numbers of vowels is: 5

1. Write a program that will take n integers into an array, and then search a number into that array. If found then print its index. If not found then print “NOT FOUND”.

*Sample Input:*

How many numbers?10

Enter the numbers: 9 11 34 23 16 15 2 37 89 54

Enter the search key: 23

*Sample Output:*

Found at position 3

1. Write a program in C to count the frequency of each element of an array of size 15(Assume the elements can be from 0 to 9).

*Sample Input:*

Enter the numbers: 5 8 0 1 2 4 7 5 8 8 6 5 3 2 1

*Sample Output:*

The frequencies of the numbers are: 1 2 2 1 1 3 1 1 3 0