

Department of Computer Science and Engineering

LAB FINAL Spring 2023

CSE341: Microprocessors

Duration: 1 hour

Name:

ID:

Section:

1. Write a program that takes the number of digits in a number (must be of 0-9 length). Then take a number of that length as input and print the digits that are divisible by 3. **[Hint: use stack]**
[10]

Sample Input 1:

Enter the number of digits: 6

Enter the number: 296431

Sample Output 1: 963

Sample Input 2:

Enter the number of digits: 7

Enter the number: 5271378

Sample Output 2: 3

2. Write a program that takes an array of length 4 and then creates the array taking inputs from the user. Then create a new array by adding 1 with each element. Finally, display the elements of the newly created array. [10]

Sample Input 1:

Enter the elements of the array: 7 5 6 2

Sample Output 1:

The resultant array: 8 6 7 3

Sample Input 2:

Enter the elements of the array: 2 8 1 1

Sample Output 2:

The resultant array: 3 9 2 2