



# Computer Programming 2 (CS121)

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# Lab Exercise 07

## Problem 1

(Occurrences of each digit in a string) Write a function that counts the occurrences of each digit in a string using the following header:

```
int* count(const string& s)
```

The function counts how many times a digit appears in the string. The return value is an array of ten elements, each of which holds the count for a digit. For example, after executing int\* counts = count("12203AB3"), counts[0] is 1, counts[1] is 1, counts[2] is 2, counts[3] is 2.

Write a main function to display the count for "SSN is 343 32 4545 and ID is 434 34 4323".

Redesign the function to pass the **counts** array in a parameter as follows:

```
void count(const string& s, int counts[], int size)
```

where **size** is the size of the **counts** array. In this case, it is **10**.







# Lab Exercise 07

### Problem 2

(*Remove duplicates*) Write a function that removes the duplicate elements from a vector using the following header:

template<typename T>
void removeDuplicate(vector<T>& v)

Write a test program that prompts the user to enter 10 integers to a vector and displays the distinct integers. Here is a sample run:

Enter ten integers: 34 5 3 5 6 4 33 2 2 4
The distinct integers are 34 5 3 6 4 33 2









