

## COSC 2430 lab 5: Hash Map

### 1. Introduction

You will create a C++ program to calculate the frequency of each string in a given list of string. For this lab you will use the build in unordered map or ordered map template to implement your solution.

### 2. Input and Output

Input file

You will be given a list of string

The first line will be the size of the list

The second line will contain multiple string, separated by a space

Input will **not** have empty line, special character, blank file

Output file

Output the frequency associated with the string in alphabetical order

### 3. Example Output

input1.txt

7

watermelon apple orange orange apple pineapple orange

output1.txt

apple: 2

orange: 3

pineapple: 1

watermelon: 1

### 4. Turn in your lab assignment

Lab 5 needs to be turned in to our Linux server, follow the link here

[https://rizk.netlify.app/courses/cosc2430/2\\_resources/](https://rizk.netlify.app/courses/cosc2430/2_resources/)

Make sure to create a folder under your root directory, name it lab5 (name need to be lower case), copy your code and argumentmanager.h to this folder, no testcase or other files needed.

PS: This document may have typos, if you think something illogical, please email TAs for confirmation.