

COSC 2436 Lab: Hash Map

1. Introduction

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

2. Input Files

- The first line will be an integer, representing the number of words given
- The second line will contain multiple strings, separated by a space
- No empty lines, special characters, or blank file
- Remove `\n` and `\r` before processing the input line if needed

3. Output Files

- Output the frequency associated with the string in alphabetical order

4. Submission

- Turn in your lab assignment to our Linux server with your login credentials
- Process of Testing and Submitting
 1. In your root folder, make a folder for the assignment (lowercase with no spaces!) (Examples: lab1, hw1, ga1)
 2. Copy your program files (no spaces!) into the folder
 3. Copy your ans/input/command.txt, ArgumentManager.h, and test.sh files into the folder (NO output.txt files)
 4. In your terminal, go to your assignment folder by running **cd foldername** and run the following commands:
 - a. `chmod u+x test.sh`
 - b. `sh test.sh`
 5. Verify all cases pass and then DELETE all .txt files
 6. In your terminal, go to your root folder by running **cd** and then run the following command:
 - a. `chmod -R 755 assignment#/(ex: chmod -R 755 lab1/)`
 7. Log out and close

Please reach out to the TAs via email or teams for any clarifications or typos.