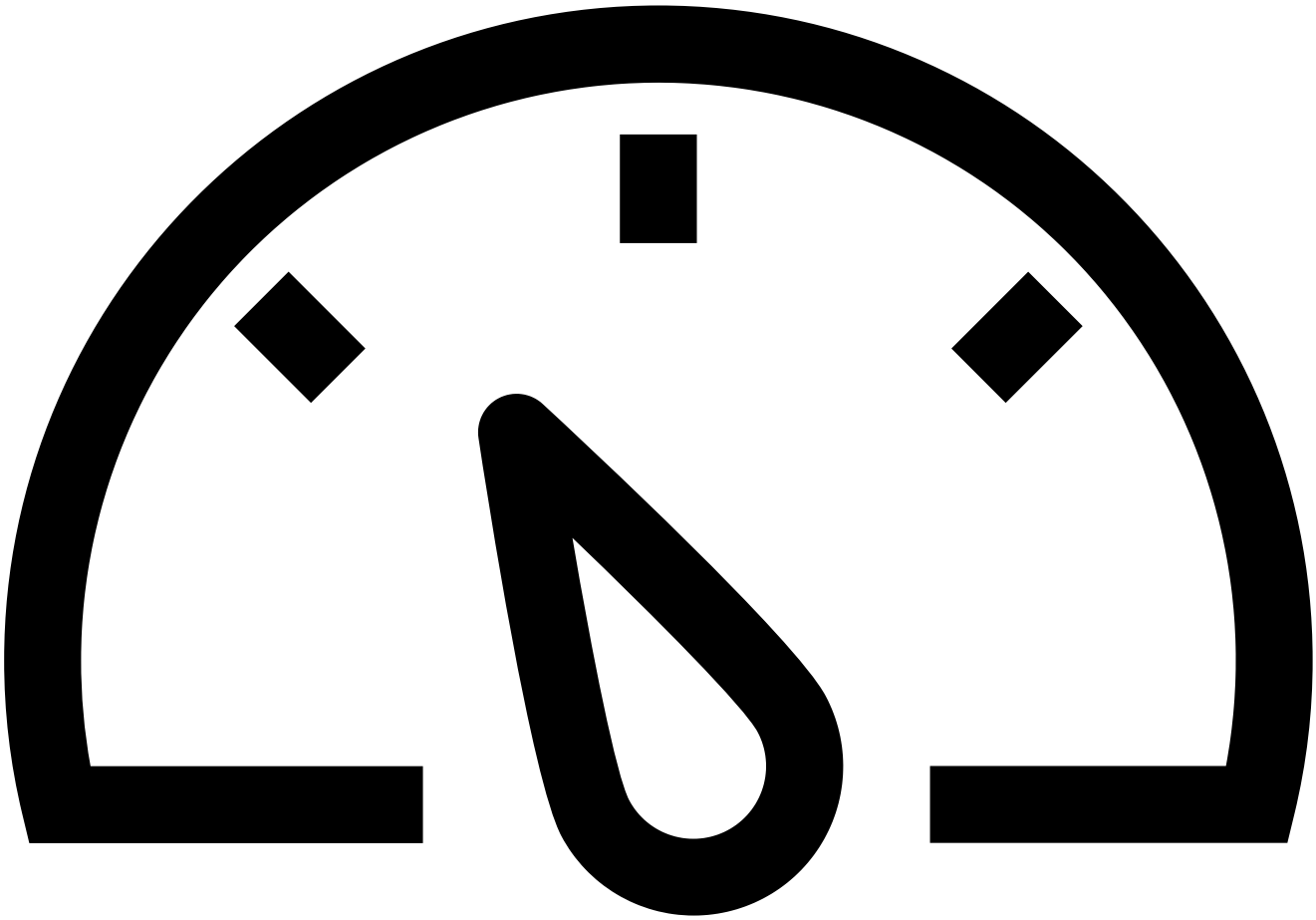
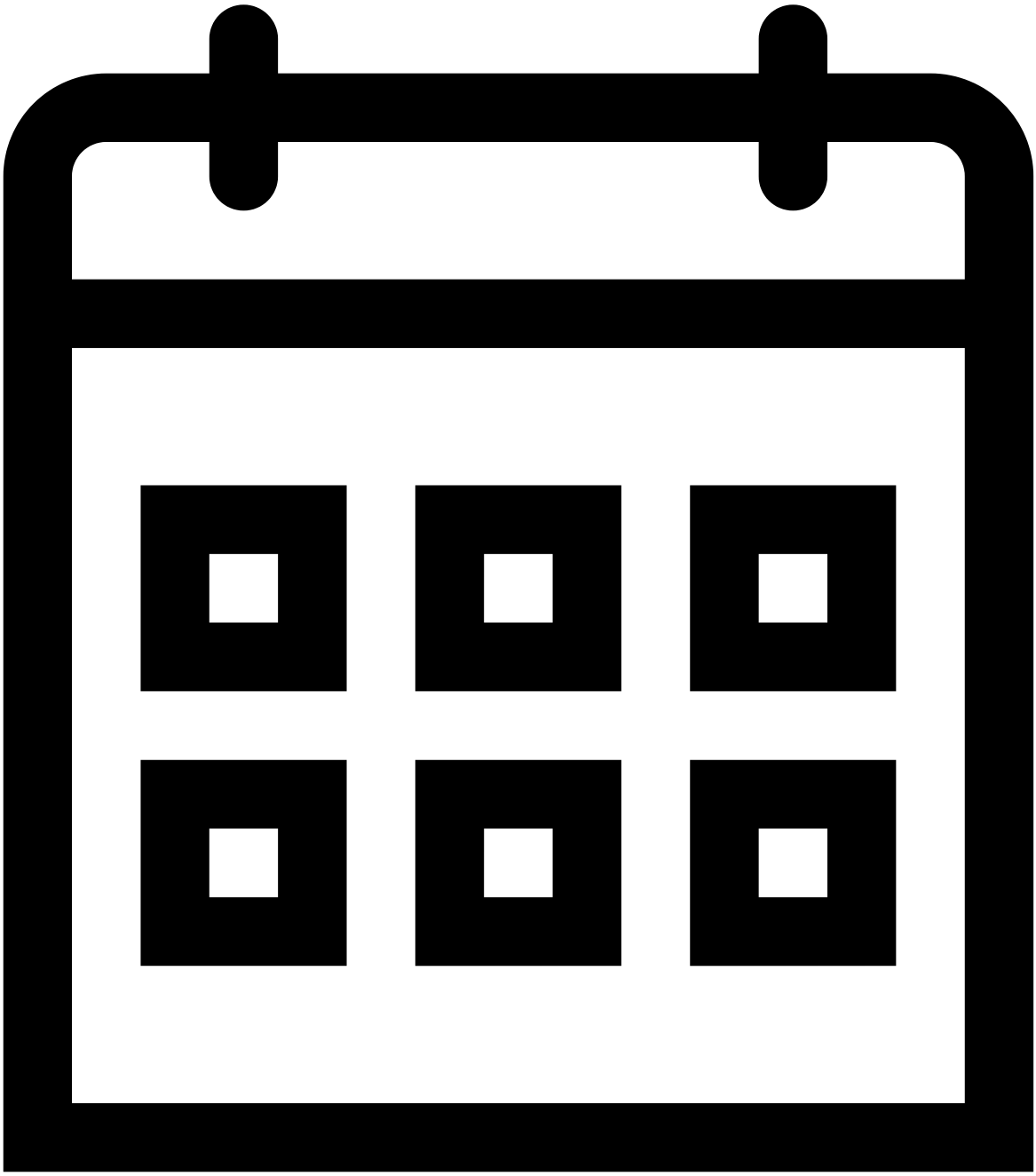
Dashboard
CSCI60-MWF 04:45 PM
Homework 7: Containers

Skip To Content
Dashboard

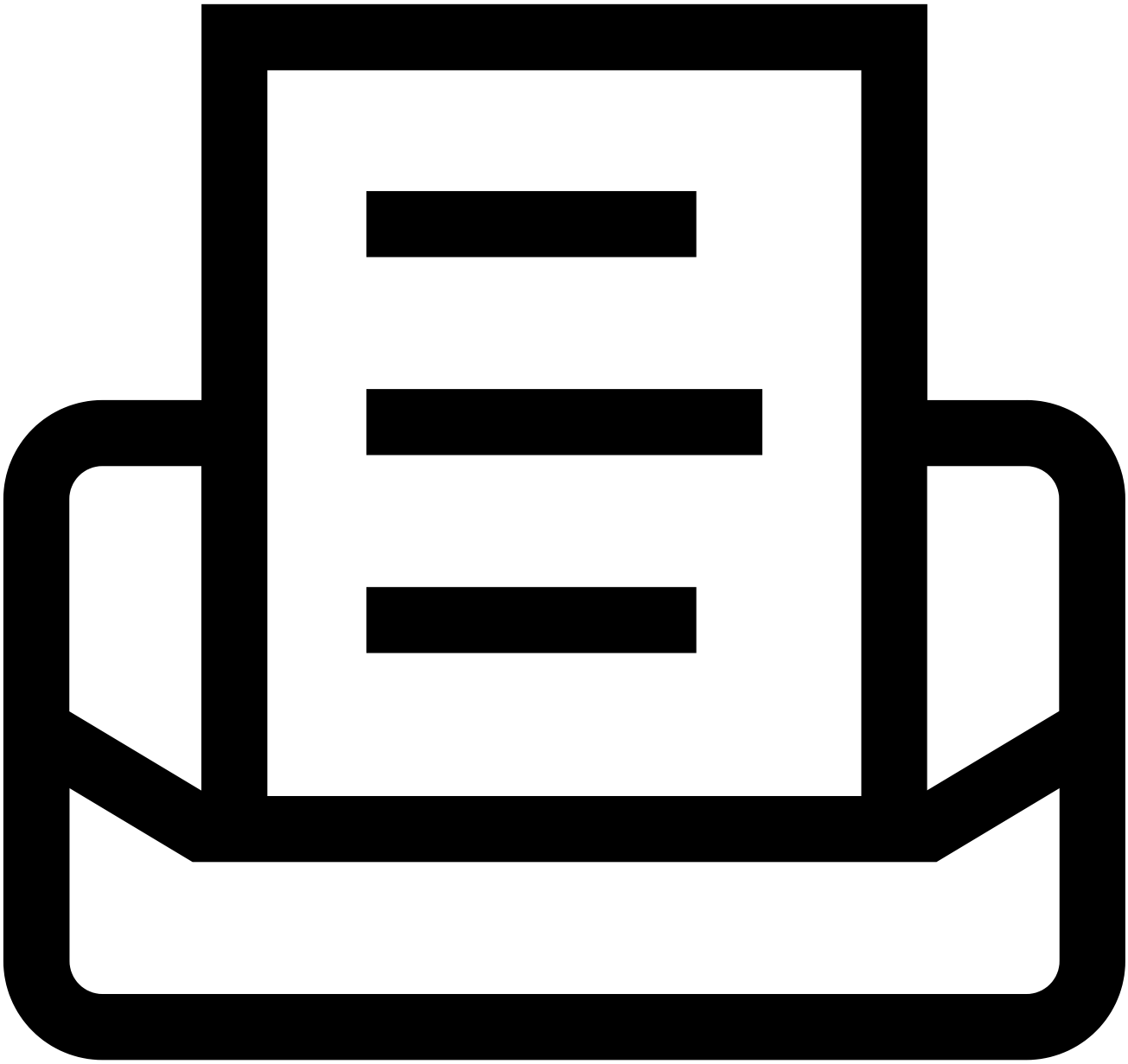
- Diego Meseguer Account



- Dashboard
- Courses



- Calendar



- Inbox
- History

- Help
- Library
- Close

- *My Dashboard*
- CSCI60-MWF 04:45 PM
- Assignments
- Homework 7: Containers

Spring 2021

- Home
- Grades
- Modules
- Class Recordings
- CONVERT
- Zoom Pro

Homework 7: Containers

Start Assignment

- Due Thursday by 11:59pm
- Points 35
- Submitting a file upload

Warm-Up:

Problem 1 (9 points). Write a program that reads in from one file, and writes to another output file, in alphabetical order and without repetition, the words from the first file. You MUST use a vector, and you can use the Algorithms functions discussed in class (but only those discussed in class.) You do not need to worry about punctuation.

Sample input 1: http://math.scu.edu/~linnell/cs60resources/gentleseduction.txt (Links to an external site.)

Beginning of output for input 1: http://math.scu.edu/~linnell/cs60resources/gsout.txt (Links to an external site.)

Sample input 2 (may take a long time): http://math.scu.edu/~linnell/cs60resources/don_quixote.txt (Links to an external site.)

1b(extra credit – 5 points). Make your program write out not only the words (still in alphabetical order and without repetition) but ALSO print out how many times they occur. You can still use only vectors. Note; this doesn't work for sets.

Problem 2 (9 points). Same as problem 1, but use a set.

Problem 3 (2 points). Which do you prefer for this problem; set or vector? Give a couple of sentences of explanation for your choice.

Main Event:

Problem 3 (15 points): Write a program that reads in from a file that is formatted with a score and name on each line. You will then print out to the screen a histogram representing the scores. If you ran your code on the sample input here (Note, your code should work for any file formatted this way, of any length) http://math.scu.edu/~linnell/cs60resources/scorename.txt (Links to an external site.) then you would get:

0

1

2

3

4

5xxxx

6xxxxxxxx

7

8x

9

10xx

You will then prompt the user to ask if they would like to see the names of people who got a given score. If they entered 10, for our sample input you would print

Emma Watson, Anna J. Karenina

When reading in from the input file, you MUST read into a map of type map<int, pair<int, vector<string> > > where the first int is the score, the second int is how many people got that score, and the vector of strings is a list of everyone who got that score.

Please submit a different file for each problem, with name HW8PxLastname.cpp where x is the number of the problem. For problem 3 please submit a pdf.

Previous Next