

Lab 14: Functional C++

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Introduction

This lab will get you to write a little bit of functional C++ and all that jazz.

Problem 1: Sorting unsortable things

Open up `main.cpp`. See that vector of pairs of names and ages? Sort it alphabetically by name.

Problem 2: Proper Capitalization

Use `transform()` to capitalize the first letter of every name.

Problem 3: Checking Names

Write a function named `any()` that takes a vector and a predicate and returns true if the predicate holds for any elements in the vector.

(Hint: This will look a lot like the definition of `all()`.)

Prompt the user for a name to search for, and use your `any()` implementation to determine if the requested name is in the list of names.

(Hint: This will require a closure.)

Epilogue

Commit your code changes to `main.cpp` and any other code files you may have created.

Good luck on finals, and enjoy your summer!