Lab 2 in C++ OOP

Hergeir Winther Lognberg
Hewi1600

1 Preamble

The Lab contains 3 folders, each containing an header and cpp file. These are files for: *PersonClass*, *NameClass* and *AddressClass*. in the Lab folder itself we find the *Functions.cpp* and *Functions.h* Containing some functions who had no business being in the *U3.cpp* file. Such as *addToReg*, *edgeTrim*, and so forth. Still some functions just made sense to keep in the *U3.cpp* file. Such as *menu* and *printMenu*

Each of the numbered files named *U* contain specific file for each assignment in the lab. *U1* contains code for assignment

1.1 Compilation

For compiling i use g++ and created a makefile to make the compiling process easier. Just run *"make"* within the directory of the makefile to compile. If you want only to compile specific assignment follow *"make"* with the corresponding assignment *"make U1"* to make the first assignment.

2 The Software

I've tried to keep redundancy away from my code. Each class is only written once and reused in U3.

2.1 U1

U1 contains nothing but a main function testing all functions of the class *Name*. Just as specified in the wording of the assignment. Only files used here are *U1.cpp* and the files in the folder *NameClass*

2.2 U2

U2 contains nothing but a main function testing all functions of the class *Address*. Just as specified in the wording of the assignment. Only files used here are *U2.cpp* and the files in the folder *AddressClass*

2.3 U3

U3 uses all files and folders except *U1* and *U2*. In Functions.cpp i've made some functions to aid to controlling user input.

The functions *getInt* and *getLine* are gold. Both ensure that user input can't be empty. Added to that both keep on asking for input as long as input is invalid. Lastly *getLine* ensures that an input only containing spaces will be perceived as empty.

Would love any feedback on good code practice. I wondered wether I should have moved all functions from *U3* except the *main*.

3 Enviroment

I'm programming on an Arch linux 64-bit system. I've got the c++ compiler installed and compile using it's g++ alias which links necessary libraries automatically. To compile i use the recommended flags: "-std=c++11 -Wall -pedantic". The flags let me choose to use c++11 standard and give me useful compiling warnings and errors.

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