

CSC 340: Project 3

Implementing semi_isograms

Due Date: Monday, April 30th 2018 @ 8pm PDT

You will be implementing the logic for determining if a string is an [isogram](#). However, there is a twist in that we are looking for Isograms defined by a word in which each letter appears the same number of times, and vowels (a, e, i, o, u) are all counted together as the same letter. All the files you need are included in this `tgz`. In particular, you should **only edit the file `semi_isograms.cc`** (the other files should not be changed). There are comments detailing what the methods should do – read those carefully to ensure you handle all the possible cases.

A Makefile and testing program are included as well, and should be executed to verify your program compiles using standard Linux g++ tools and functions correctly. You are free to use any IDE you prefer, but you must ensure that your program compiles and runs in a modern Linux environment using g++ and C++11 (as that is the system I will be using to grade the project).

To run the Makefile version on Linux, you just execute the following commands:

```
$ make
$ ./semi_isograms_test
```

The first command will compile your code and make an executable and the second command runs a simple test harness to validate your code. Those tests will be what I run to grade your project, in addition to manually looking at your code for proper style and memory management, so make sure all the tests are passing before submitting.

This project should be done individually and without sharing your solution with other students.

Make sure to fill in your ID details in the comment at the top of `semi_isograms.cc`, and submit only that file via iLearn prior to the project deadline. I will not be accepting late submissions, so ensure you get it submitted before the deadline.