

### Lab 5 - Quiz 2 Practice

- In your `sfuhome/cmpt-225` folder, create a folder called `L5Q2P`.
- Using the same link you just used to access `Lab5Quiz2Practice.pdf` but replacing the extension **pdf** with the extension **zip**, download `Lab5Quiz2Practice.zip` into your `L5Q2P` folder and **extract the files contained in `Lab5Quiz2Practice.zip`** into your `L5Q2P` folder.
- This zip file contains the following:
  - `testDriver.cpp` – the test driver file – **feel free to modify – not to be submitted**
  - `makefile` – to compile your code (command: `$ make`). Make sure this file does not have a `.txt` extension - **not to be modified – not to be submitted**
  - `UnableToInsertException` class (`UnableToInsertException.h`, `UnableToInsertException.cpp`) - **not to be modified – not to be submitted**
  - `DataCollection` class (`DataCollection.h`, `DataCollection.cpp`)
    - `DataCollection.h` – the `DataCollection` header file – **not to be modified – not to be submitted**
    - `DataCollection.cpp` - the `DataCollection` implementation (or code) file – **to be modified and for Quiz 2, it will be the file to submit on CourSys – but in this Lab 5 – Quiz 2 Practice, you do not submit it – but you compile it and test it!**
- Open and read the content of all these files.
- The content of `DataCollection.h` and `DataCollection.cpp` tells you how the `DataCollection` class is designed and (partially) implemented. Indeed, you will notice that `DataCollection.cpp` is incomplete.
  - Some of its methods have already been implemented **and must not be modified**. You can use them by calling them.
  - Your task is to implement the `DataCollection`'s methods that have not yet been implemented such that **their implementation satisfies the meaning of their name and their documentation contract**: description, precondition (if any), postcondition (if any), etc...

- You cannot change the prototype of these methods.
- Note that **not everything has been explicitly stated in the documentation contract of these methods** you are asked to implement. You need to use your own judgment and your software development experience acquired so far to make the proper decisions.
- Make sure your methods do not print anything, unless, their description says so.
- The code provided in this **Lab 5 - Quiz 2 Practice** does not contain any bugs or syntax errors.
- Testing
  - Once you have successfully compiled your **DataCollection** class using the provided **makefile**, make sure you test it sufficiently using the provided test driver file. Feel free to add a variety of test cases to this test driver.

Good luck!