You shall upload a zipped (AND ONLY ZIPPED) archive to Blackboard containing the directory hw6 and:

- A `hw7/stat_tracker.h` file with csce240::StatTracker header.

- A `hw7/stat_tracker.cc` file with csce240::StatTracker method declarations

We are going to provide a templated class interface to allow basic statistics on well-formed data classes. The libraries are further described as follows:

1. **stat_tracker.h**

   (a) csce240::StatTracker

      i. Add—Adds a new element to the tracked elements.
      ii. Count—Number of tracked elements.
      iii. Extract—Copies the tracked elements to an std::ostream object delimited, but not preceded or followed, by a single space.
      iv. Mean—Calculates the average of the elements stored.
      v. Median—Calculates the median element.
      vi. Mode—Calculates the most commonly appearing element(s).

2. **stat_tracker.cc**

As in the previous assignments, you will receive up to 100% credit for turning it on the day it is due and will lose 25% per day late.

The methods **Add**, **Count**, and **Extract** must be provided for any credit. The **Mean** method is worth 2 points, the **Median** method is work 2 points, and the **Mode** method is worth 3 points. There are another 3 possible in the styling.