lab 06: C++ Arrays as an Object

Instructions: This lab will continue your review of arrays in C++, but now as a class. Implement the following class

```
class IntArray {
    private:
    /* You fill out the private contents. */

    public:
    /* Copy array's contents to an internal array, (length = size). */
    /* Do a deep copy! */
    IntArray(int *array, int size);

    /* Return the current length of the array */
    int getLength();

    /* Returns the index in the array where value is found.
     * Return -1 if value is not present in the array.
     */
    int indexOf(int value);

    /* Removes an item at position index by shifting later elements left.
     * Returns true iff 0 <= index < size.
     */
    bool remove(int index);

    /* Returns an Array of all integers that are in common with self and ary.
     * Return an empty Array if there are no intersections.
     */
    IntArray* findIntersections(IntArray &ary);

    /* Return true if the array ary is contained sequentually in self. */
    bool isSubsequence(IntArray &ary);

    /* Delete any used memory when this variable goes out of scope. */
    ~IntArray();
}
```

How to turn in:
Turn in via GitHub. Ensure the file(s) are in your directory and then:

- $ git add <files>
- $ git commit
- $ git push

Due Date: September 13, 2017 2359

Webhook: The webhook is:
http://coins.csuniv.edu:2234/github/build-csci-315-fall-2017.php
Remember, after the first push, please wait 5-10 minutes for the auto-grader to get your repository. Then subsequent pushes should receive a grade.

Testing: You are in charge of testing.

Teamwork: No teamwork, your work must be your own.