CSC 326 Data Structures
Assignment I

1. (10 points) **Class Vec**

Here is a checklist for helping you complete the `class Vec` library code:

- □ Start from the sample code at: https://replit.com/@Cong_Chen/2022-09-21#main.cpp
- □ Change `struct` to `class`
- □ Make all the members `private`; you can also add any other `private` members/methods if you want to
- □ Add `get_size`, `get_capacity` and `get_array` methods
- □ Complete and debug all the other methods in the sample code
- □ Complete the `int operator*(Vec a, Vec b);`: it does the dot product for two vectors
- □ Write some testing code in the `main` function
- □ Separate and organize the code into `Vec.h`, `Vec.cpp`, and `main.cpp`
- □ Bonus (extra 3 points): Change to `template` for any data type elements
- □ You can rename any class/members/methods/variables to meet your coding style
- □ Post your code at: https://replit.com/@Your_ID/CSC-326; Provide your replit ID if you haven’t
- □ Due Date: 10/16/2022