

#### Homework 2, Question 4:

Part a wants us to create my own stack function to list all the elements in my stack. I created the function `PrintStack` which takes in an integer stack. We will first check and make sure the stack isn't empty. Once we do this we use a variable `x` to store the top value we print it out and then pop it and then use recursion to call the same function to make it repeat over and over until our stack is empty. Part b wants us to iterate through the function and change a value based on its position. So we create two stacks, `myStack` which will be our main and original stack, and `tempStack` which will be our temporary stack. After we fill `myStack` with random variables and print them out. We use a while loop to move all of the values that are in the positions before our wanted position from `myStack` to `tempStack`. We do this because there is no iterator operation that exists for stack. After we moved our unwanted position/values to `tempStack` we changed our desired value, and then use another while loop to move everything back to `myStack` and then print it out again showing our new stack with the changed value.