

You cannot use multiple return statements in any method submitted for this project.

This program will not compile/build until Tests 1 and 2 are completed.

Test 1 – Member fields and Constructors

```
Student Test1(string last, string first, int idNo)
```

For this test you will add member fields and constructors to the Student class.

The private member fields to add are a string to represent a last name, a string to represent a first name and an int to represent an identification number.

You will provide the default (no parameter) constructor and one overloaded constructor.

- The default constructor will set last and first names to empty strings ("") and set the id number to 1000000 (1 million).
- The overloaded constructor that will accept two strings (last name, first name) and one int (id number) and update the member fields the received values.

After making the specified additions in the Student class, create and then return a new Student object using the provided parameters.

Test 2 – Getters and Setters

```
Student Test2()
```

For this test, you are to add public getters and setters for the Student class member fields. The methods must be named:

<u>Getters</u>	<u>Setters</u>
GetFirstName	SetFirstName
GetLastName	SetLastName
GetIDNumber	SetIDNumber

After making the specified additions in the Student class, create and then return a new Student object **using the default constructor**.

For Tests 3-5, you will use the enrollment array. It is a static member of the Submission class.

Test 3 – Insert in array

```
bool Test3(Student enrolled)
```

Given a string, enrolled, search the enrollment array to find an empty element (null). If an empty element is located, place enrolled in the empty element and return true. If there are no available slots, return false.

Test 4 – Remove from array

```
bool Test4(int idNumber)
```

Given an int, idNumber, search the array to find idNumber. Examine each element in the enrollment array to find idNumber. If it is found, mark the array location as empty (null) and return true. If idNumber is not found in the array, return false.

Test 5 – Retrieve from array

Student Test5(int idNumber)

Given an int, idNumber, search the array to find idNumber. Examine each element in the enrollment array to find idNumber. **If it is found**, return the Student with the id number idNumber. If idNumber is not found in the array, return null.