

Programming Paradigms Lab Assignment (CS 2273)

Assignment 3 (Part 2) : Class and Object concepts using C++

Time : One week

Continuation from Assignment 3 (Part 1)

Attempt the following ONLY when Assignment-3-Part-1 problems are completed

5. Modify the Problem 2 (keep the code of problem 2 unchanged) with following support -

- Provide a mechanism to maintain the count of Array created
- Provide a mechanism to update an array by adding two existing array using “+ operator”.

Example code :

```
RSArray aRSArrayA, aRSArrayB, aRSArrayC;  
...  
aRSArrayC = aRSArrayA + aRSArrayB;
```

- Provide a mechanism to restrict that maximum N array can be created
6. Modify the Problem 1 (keep the code of problem 1 unchanged) and provide suitable implementation of operator `new` and `delete` under the scope of the `Student` class. The `Student` class should maintain a memory pool of `Students` objects internally. Whenever `new` operator is called, an object should be returned and whenever `delete` operator will be called, the object should go back to the memory pool.