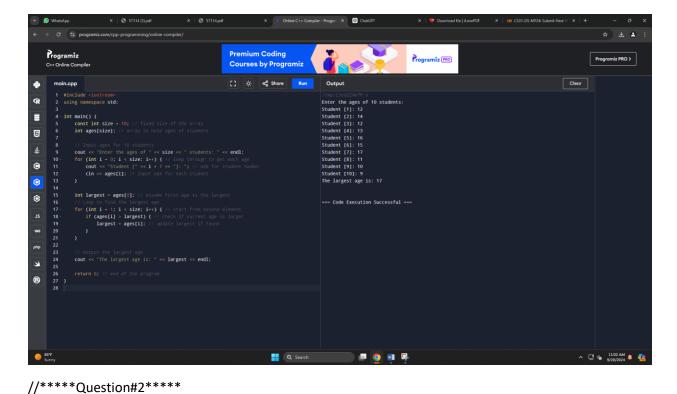
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## Assignment#1

```
//*****Question#1*****
#include <iostream>
using namespace std;
int main() {
  const int size = 10;
  int ages[size];
  cout << "Enter the ages of " << size << " students: " << endl;</pre>
  for (int i = 0; i < size; i++) {
    cout << "Student [" << i + 1 << "]: ";
    cin >> ages[i];
  }
  int largest = ages[0];
  for (int i = 1; i < size; i++) {
    if (ages[i] > largest) {
       largest = ages[i];
    }
  }
  cout << "The largest age is: " << largest << endl;</pre>
  return 0;
}
```



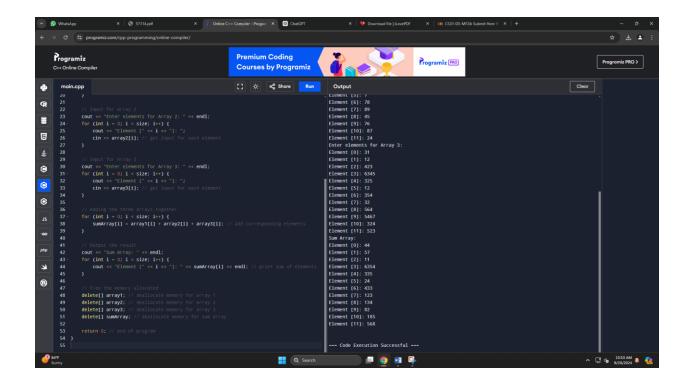
```
#include <iostream>
using namespace std;

int main() {
   int size;
   cout << "Enter the size of the arrays: ";
   cin >> size;

// Create arrays
   int* array1 = new int[size];
   int* array2 = new int[size];
   int* array3 = new int[size];
   int* sumArray = new int[size];
   cout << "Enter elements for Array 1: " << endl;
   for (int i = 0; i < size; i++) { // loop for size of array}</pre>
```

```
cout << "Element [" << i << "]: ";
  cin >> array1[i];
}
cout << "Enter elements for Array 2: " << endl;
for (int i = 0; i < size; i++) {
  cout << "Element [" << i << "]: ";
  cin >> array2[i]; }
cout << "Enter elements for Array 3: " << endl;
for (int i = 0; i < size; i++) {
  cout << "Element [" << i << "]: ";
  cin >> array3[i];
}
for (int i = 0; i < size; i++) {
  sumArray[i] = array1[i] + array2[i] + array3[i];
}
cout << "Sum Array: " << endl;</pre>
for (int i = 0; i < size; i++) {
  cout << "Element [" << i << "]: " << sumArray[i] << endl;
}
delete[] array1;
delete[] array2; delete[] array3;
delete[] sumArray;
return 0;
```

}



```
//*****QUESTION#3*****
#include <iostream>
using namespace std;

int main() {
    int size;
    cout << "Enter the size of the array: ";
    cin >> size;

int* array = new int[size];
    cout << "Enter elements of the array: " << endl;
    for (int i = 0; i < size; i++) {
        cout << "Element [" << i << "]: ";
        cin >> array[i];
    }
}
```

```
int item;
  cout << "Enter the item to search for: ";</pre>
  cin >> item;
  bool found = false;
  for (int i = 0; i < size; i++) {
    if (array[i] == item) {
      found = true; // item is found
      cout << "Item found at index: " << i << endl;
       break;
    }
  }
    if (found == false) {
    cout << "Item not found in the array." << endl; // output if not found
  }
  delete[] array;
  return 0;
}
```

