Remove duplicates from the sorted array

Given a sorted array, the task is to remove the duplicate elements from the array.

Examples:

```
Input  : arr[] = {2, 2, 2, 2, 2}
Output : arr[] = {2}
         new size = 1


Input  : arr[] = {1, 2, 2, 3, 4, 4, 4, 5, 5}
Output : arr[] = {1, 2, 3, 4, 5}
         new size = 5
```

Program

```cpp
// Simple C++ program to remove duplicates

#include <iostream> using

namespace std;


int removeDuplicates(int arr[], int n)
{


  if (n == 0 || n == 1)
return n;


  int temp[n];



  int j = 0;


  for (int i = 0; i < n; i++)
```

```cpp
        if (arr[i] != arr[i + 1])
temp[j++] = arr[i];

 temp[j++] = arr[n - 1];



    for (int i = 0; i < j; i++)
arr[i] = temp[j];


    return j;
}



int main()
{
    int arr[] = { 1, 2, 2, 3, 4, 4, 4, 5, 5,45 };
 int n = sizeof(arr) / sizeof(arr[0]);


    // removeDuplicates() returns new size of array.
    n = removeDuplicates(arr, n);


    // Print updated array
for (int i = 0; i < n; i++)
cout << arr[i] << " ";


    return 0;
}
```