Remove Duplicates in C++

```
#include <iostream>
using namespace std;
int removeDup(int arr[], int n) {
  int res = 1;
  for (int i = 1; i < n; i++) {
     if (arr[i] != arr[res - 1]) {
       arr[res] = arr[i];
       res++;
  }
  return res;
int main() {
  int arr[] = \{2, 2, 3, 4, 5, 6\};
  int n = sizeof(arr) / sizeof(arr[0]);
  int p = removeDup(arr, n);
  cout << "After Removal" << endl;</pre>
  for (int i = 0; i < p; i++) {
     cout << arr[i] << " ";
  }
  cout << endl;
  return 0;
```

Dry Run Table

i	arr[i]	arr[res - 1]	Condition Met (!=)	Action	arr[res]	res
1	2	2	X No	Skip	-	1
2	3	2	∜ Yes	arr[1] = 3	3	2
3	4	3	∜ Yes	arr[2] = 4	4	3
4	5	4		arr[3] = 5		4
5	6	5	∜ Yes	arr[4] = 6	6	5

∜ Final Values:

- $res = 5 \rightarrow means 5$ unique elements.
- Modified array (first res elements):

$$arr[] = \{2, 3, 4, 5, 6\}$$

After Removal 2 3 4 5 6