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UID: 20BCS2761   **SECTION: 20BCS_WM_902 B**

SUBJECTNAME: Design and Analysis of Algorithms Lab

Aim:
Counting frequencies of array elements.

Sol:
Code:

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

int main() {
    int n, count;

cout<< "Enter the size of the array: ";
cin>>n;

    int array[n], visited[n];

cout<< "Enter " << n << " numbers in the array: ";
for(int i=0; i<n; i++){
cin>> array[i];
    }

for(int i=0; i<n; i++){
        if(visited[i] == 1)
continue;       count = 0;
for(int j=0; j<n; j++){
if(array[i] == array[j]){
visited[j] = 1;
count++;
        }
    }
cout<< array[i] << ": " << count <<endl;
    }
return 0;
}
```

Output:

```
Output

/tmp/faHNcHkVWU.o
Enter the size of the array: 6
Enter 6 numbers in the array: 2 4 6 3 2
12: 2
4: 1
6: 1
3: 1
1: 1
```