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Roll Number: SYCOC303   Division: C

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Problem Statement:

Write a C++ program to print all the repeated numbers with their frequency in an array in minimum time complexity

Input Format

Enter no. of elements:10
Enter the elements:4 7 6 4 8 4 7 2 1 1

Constraints

No. of elements > 0

Output Format

Repeated Numbers with their frequency are as follows:
4 -> 3
7 -> 2
1 -> 2

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INPUT:

```
#include <cmath>

#include <cstdio>

#include <vector>

#include <iostream>

#include <algorithm>

using namespace std;



int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
```

```cpp
    int n;
    cout<<"\nEnter no. of elements:";
    cin>>n;
    int arr[n];
    int checked[n];
    //using this array we will check whether the particular element is already visited
or not
    //if value is 0 then it is not visited if it is 1 then it is already visited
    for(int i=0;i<n;i++)
    {
        checked[i]=0;
    }
    cout<<"\nEnter the elements:";
    for(int i=0;i<n;i++)
    {
        cin>>arr[i];
    }

    cout<<"\nRepeated Numbers with their frequency are as follows:\n";
    for(int i=0;i<n;i++)
    {
        if(checked[i]==1)
        {
            continue;
        }
        else
        {
            int count=1;
            for(int j=i+1;j<n;j++)
            {
                if(arr[i]==arr[j])
                {
                    checked[j]=1;
                    count++;
                }
            }
            if(count>1)
```

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```
        {
            cout<<arr[i]<<"->"<<count<<endl;
        }
    }
}
    return 0;
}
```

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OUTPUT:

✅ Test against custom input

⬆ Upload Code as File

```
10
4 7 6 4 8 4 7 2 1 1
```

Custom Testcase ⓘ

Compilation Successful

Input (stdin)

```
10
4 7 6 4 8 4 7 2 1 1
```

Your Output

```
Enter no. of elements:
Enter the elements:
Repeated Numbers with their frequency are as follows:
4->3
7->2
1->2
```

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