

# Count Frequency of Elements

## Problem

Given an array `a[]` of size `n`, our task is to find the frequency of each element in the array.

## Example

2	2	2	1	1	4	3	4
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In the above array, frequency of elements is

1	→	2
2	→	3
3	→	1
4	→	2

## Answer

### Steps

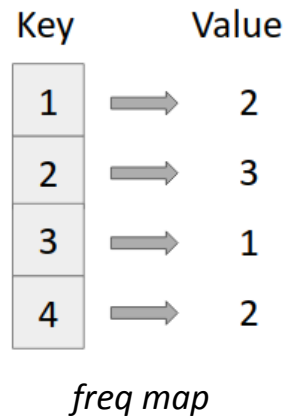
1. Declare a map (say `freq`) of both keys and value as `int`.

`map<int,int> freq;`

2. Iterate over the elements of the array and in each iteration just do,

`freq[a[i]]++;`

Imagination of freq map should be like this in your mind



## Code

```
home > user > Desktop > Apni kaksha > G hello.cpp > main()
1  #include<bits/stdc++.h>
2  using namespace std;
3
4  int main(){
5      int n;
6      cin >> n;
7
8      vector<int> a(n);
9
10     for(int i=0; i<n; i++) {
11         cin >> a[i];
12     }
13     map<int,int> freq;
14     for(int i=0; i<n; i++) {
15         freq[a[i]]++;
16     }
17     map<int,int> :: iterator it;
18
19     for(it = freq.begin(); it!=freq.end(); it++){
20         cout << it->first << " " << it->second << endl;
21     }
22     return 0;
23 }
```

**Local: hello**

**[+] Testcase 1 Failed**

Input:  
8  
2 2 2 1 1 4 3 4

Expected Output:

Received Output:  
1 2  
2 3  
3 1  
4 2

+ New Testcase

Run All + New