

## Day – 52 of #101 days of coding challenge-----

**Problem:-** Given a list of integers, count and return the number of times each value appears as an array of integers.

**Code:-**

```
vector<int> countingSort(vector<int> arr) {  
  
    vector<int> ans;  
    for (int i=0; i<100; i++) {  
        ans.push_back(0);           //initializes array to 0 elements  
    }  
  
    for(int item : arr) {  
        ans[item]++;  
    }  
  
    return ans;  
}
```

**Output:-**

✔ Test case 0

✔ Test case 1

✔ Test case 2

✔ Test case 3

✔ Test case 4

✔ Test case 5

Compiler Message

Success

Input (stdin)Download

1	100
2	63 25 73 1 98 73 56 84 86 57 16 83 8 25 81 56 9 53 98 67 99 12 83 89 80 91 39 86 76 85 74 39 25 90 59 10 94 32 44 3 89 30 27 79 46 96 27 32 18 21 92 69 81 40 40 34 68 78 24 87 42 69 23 41 78 22 6 90 99 89 50 30 20 1 43 3 70 95 33 46 44 9 69 48 33 60 65 16 82 67 61 32 21 79 75 75 13 87 70 33

Expected OutputDownload

1	0 2 0 2 0 0 1 0 1 2 1 0 1 1 0 0 2 0 1 0 1 2 1 1 1 3 0 2 0 0 2 0 3 3 1 0 0 0 0 2 2 1 1 1 2 0 2 0 1 0 1 0 0 1 0 0 2 1 0 1 1 1 0 1 0 1 0 2 1 3 2 0 0 2 1 2 1 0 2 2 1 2 1 2 1 1 2 2 0 3 2 1 1
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