

Name: Sagar Srivastava

Roll No: 1900290100127

## LeetCode Biweekly Contest 84

### Week 4

In this contest, I solved 2/4 questions and got a rank of **7330 / 23103**

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Problem list	Score
<a href="#">Merge Similar Items</a>	3
<a href="#">Count Number of Bad Pairs</a>	5
<a href="#">Task Scheduler II</a>	5
<a href="#">Minimum Replacements to Sort the Array</a>	6

Rank	Name	Score	Finish Time
1	<a href="#">Helton</a>	19	0:08:13
2	<a href="#">numb3r5</a>	19	0:08:13
3	<a href="#">simpleson</a>	19	0:09:01
4	<a href="#">arignote</a>	19	0:10:11
5	<a href="#">jasonvictoryan</a>	19	0:11:28

More...

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Rank	Name	Score	Finish Time	Q1 (3)	Q2 (5)	Q3 (5)	Q4 (6)
7330 / 23103	OnlyForContests	8	1:07:36	0:15:11	0:47:36	4	

The questions that I've solved are below:

- 1) Merge Similar Items
- 2) Count Number of Bad Pairs

## 1) Merge Similar Items

```
class Solution {
public:
    vector<vector<int>> mergeSimilarItems(vector<vector<int>>& items1,
vector<vector<int>>& items2) {
        unordered_map<int,int> a,b;

        for(auto x : items1){
            a[x[0]] = x[1];
        }

        for(auto x : items2){
            b[x[0]] = x[1];
        }

        vector<vector<int>> ans;

        for(auto x : a){
            if(b.find(x.first) != b.end()){
                int wt = a[x.first] + b[x.first];
                ans.push_back({x.first, wt});
            }
            else{
                ans.push_back({x.first, x.second});
            }
        }
    }
}
```

```

unordered_map<int,int> c;

for(auto x : ans){
    c[x[0]] = x[1];
}

for(auto x : a){
    if(c.find(x.first) == c.end()){
        ans.push_back({x.first,x.second});
    }
}

for(auto x : b){
    if(c.find(x.first) == c.end()){
        ans.push_back({x.first,x.second});
    }
}

sort(ans.begin(),ans.end());

return ans;
}
};

```

## 2) Count Number of Bad Pairs

```

class Solution {
public:
    long long countBadPairs(vector<int>& nums) {
        long long int ans = 0;

```

```

map<long long int,long long int> m;

long long int cnt = 0;

for(int i=0;i<nums.size();i++){
    if(m.find(nums[i]-i) != m.end()){
        cnt += m[nums[i]-i];
        m[nums[i]-i]++;
    }
    else{
        m[nums[i]-i]++;
    }
}

int n = nums.size();
ans = ((long long int)n*((long long int)(n-1)))/2;
//cout<<cnt<<endl;
return (long long)(ans - cnt);
}
};

```