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LeetCode Weekly Contest 302

Week 2

In this contest, I solved 3/4 questions and got a rank of 3051 / 17235

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1	kmjp	18	0:07:13
2	996yyds	18	0:08:19
3	jonathanirvings	18	0:08:32
4	uwi	18	0:08:46
5	Tlatoani	18	0:09:07

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Problem list

Problem	Score
Maximum Number of Pairs in Array	3
Max Sum of a Pair With Equal Sum of Digits	4
Query Kth Smallest Trimmed Number	5
Minimum Deletions to Make Array Divisible	6

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30°C 01:06 10/8/2022

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Virtual

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Finish Time

Solved

Ranking

Weekly Contest 302

Jul 17, 2022 8:00 AM GMT+5:30

0:15:08

3 / 4

3051 / 17235

The questions that I've solved are below:

- 1) Maximum Number of Pairs in Array
- 2) Max Sum of a Pair with Equal Sum of Digits
- 3) Query Kth Smallest Trimmed Number

1) Maximum Number of Pairs in Array

```
class Solution {
public:
    vector<int> numberOfPairs(vector<int>& nums) {
        map<int,int> m;
        for(auto x : nums){
            m[x]++;
        }

        int cnt = 0;

        for(auto x : m){
            if(x.second > 1){
                cnt += x.second/2;
                x.second = x.second % 2;
            }
        }

        int temp = 0;

        for(auto x : m){
            if(x.second % 2 == 1){
                temp++;
            }
        }
    }
}
```

```

        return {cnt, temp};
    }
};

```

2) Max Sum of a Pair with Equal Sum of Digits

```

class Solution {
public:
    long long int sum(long long int x){
        long long int s = 0;
        while(x){
            s += x%10;
            x/=10;
        }
        return s;
    }

    int maximumSum(vector<int>& nums) {
        map<long long, int> m;    // {DigitSum , Element}
        long long ans = -1;

        for(auto x : nums){
            int digit_sum = sum(x);

            if(m.find(digit_sum) != m.end()){
                long long int temp = m[digit_sum] + x;
                ans = max(ans, temp);
            }
            m[digit_sum] = max(m[digit_sum],x);
        }
    }
}

```

```
        return ans;
    }
};
```

3) Query Kth Smallest Trimmed Number

```
class Solution {
public:
    vector<int> smallestTrimmedNumbers(vector<string>& nums,
    vector<vector<int>>& queries) {
        vector<int> ans;
        for(auto x : queries){
            vector<pair<string,int>> v;
            for(int i=0;i<nums.size();i++){
                v.push_back({nums[i].substr(nums[i].size()-x[1]), i});
            }
            sort(v.begin(),v.end());
            ans.push_back(v[x[0]-1].second);
        }
        return ans;
    }
};
```