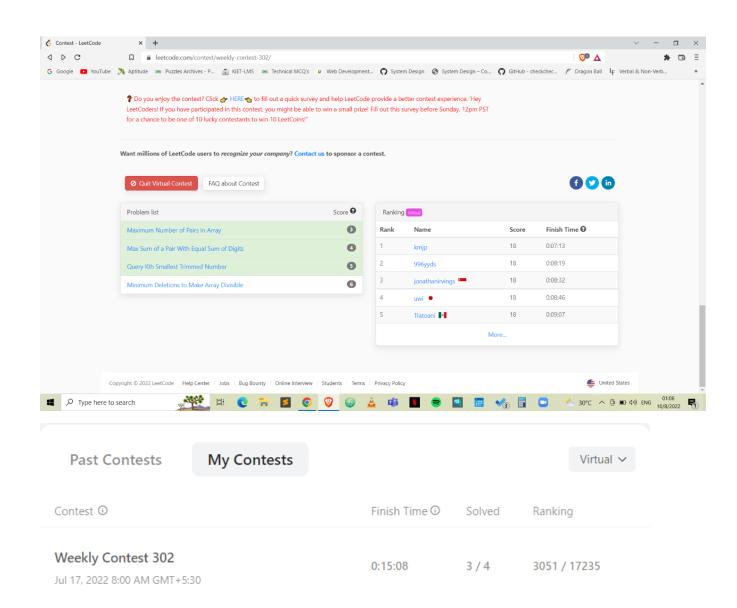
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LeetCode Weekly Contest 302 Week 2

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



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++){</pre>
          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;
  }
};
```