Greedy for practice:

Sharing good Greedy problems for practice:

Sort/Array

https://leetcode.com/problems/jump-game/

https://leetcode.com/problems/jump-game-ii/

https://leetcode.com/problems/gas-station/

https://leetcode.com/problems/candy/

https://leetcode.com/problems/remove-k-digits/

https://leetcode.com/problems/wiggle-subsequence/

https://leetcode.com/problems/assign-cookies/

https://leetcode.com/problems/boats-to-save-people/

https://leetcode.com/problems/bag-of-tokens/

https://leetcode.com/problems/number-of-burgers-with-no-waste-of-ingredients/

https://leetcode.com/problems/queue-reconstruction-by-height/

https://leetcode.com/problems/play-with-chips/

https://leetcode.com/problems/previous-permutation-with-one-swap/

https://leetcode.com/problems/lemonade-change/

https://leetcode.com/problems/bag-of-tokens/

Hash/Multi-set:

https://leetcode.com/problems/task-scheduler/

https://leetcode.com/problems/partition-labels/

https://leetcode.com/problems/car-pooling/

https://leetcode.com/problems/divide-array-in-sets-of-k-consecutive-

numbers/

https://leetcode.com/problems/group-the-people-given-the-group-size-they-

belong-to/

https://leetcode.com/problems/cinema-seat-allocation/

https://leetcode.com/problems/construct-k-palindrome-strings/

https://leetcode.com/problems/advantage-shuffle/

Strings:

https://leetcode.com/problems/reorganize-string/

https://leetcode.com/problems/string-without-aaa-or-bbb/

https://leetcode.com/problems/check-if-a-string-can-break-another-string/ https://leetcode.com/problems/remove-duplicate-letters/

Heap:

https://leetcode.com/problems/last-stone-weight/ https://leetcode.com/problems/reduce-array-size-to-the-half/

Stack:

https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/

Sharing solutions for little tricky problems:

https://leetcode.com/problems/divide-array-in-sets-of-k-consecutive-numbers/

```
class Solution {
public:
      bool isPossibleDivide(vector<int>& nums, int k) {
             int n = nums.size();
             if (n % k != 0) return false;
             int ssize = n/k;
             map<int, int>hm;
             for (int i = 0; i < n; i++)
                    hm[nums[i]]++;
             for (auto it = hm.begin(); it != hm.end(); it++) {
                    if (hm[it->first] > 0) {
                           for (int i = k-1; i \ge 0; i--) {
```

https://leetcode.com/problems/car-pooling/

```
class Solution {
public:
    bool carPooling(vector<vector<int>>& trips, int capacity) {
        int trip_len = 1001;
        vector<int>stops(trip_len, 0);

        for (int i = 0; i < trips.size(); i++) {
            stops[trips[i][1]] += trips[i][0];
            stops[trips[i][2]] -= trips[i][0];
        }

        for (int i = 0; i < trip_len; i++) {</pre>
```

```
if (i != 0) stops[i] += stops[i-1];
                    if (stops[i] > capacity)
                           return false;
             }
             return true;
      }
};
https://leetcode.com/problems/reorganize-string/
class Solution {
      static bool compare(pair<char, int>p1, pair<char, int>p2) {
             return p1.second > p2.second;
      }
public:
      string reorganizeString(string S) {
             int n = S.length();
             unordered_map<char, int>m;
             vector<pair<char, int>>v;
             for (int i = 0; i < n; i++)
                    m[S[i]]++;
```

```
for(auto it = m.begin(); it != m.end(); it++) {
       if (it->second > (n+1)/2)
             return "";
       v.push_back(make_pair(it->first, it->second));
}
sort(v.begin(), v.end(), compare);
string str;
for (int i = 0; i < v.size(); i++) {</pre>
      while (v[i].second--)
             str += v[i].first;
}
string ans;
int size = str.size();
int i = 0, j = (size-1)/2+1;
while (i < (size-1)/2+1) {
       ans += str[i];
       ans += str[j];
       i++; j++;
}
```

```
return ans;
      }
};
https://leetcode.com/problems/candy/
class Solution {
public:
      int candy(vector<int>& ratings) {
             int n = ratings.size();
             vector<int>left(n, 1);
             for (int i = 1; i < n; i++) {</pre>
                    if (ratings[i] > ratings[i-1])
                           left[i] = left[i-1]+1;
             }
             int sum = left[n-1];
             for (int i = n-2; i >= 0; i--) {
                    if (ratings[i] > ratings[i+1])
                           left[i] = max(left[i], left[i+1]+1);
                     sum += left[i];
             }
              return sum;
```

};