18. 4Sum

题目描述: <u>https://leetcode.com/problems/4sum/</u>

给定一个candidate数组,作为候选,给定一个target,求4个加和等于target的不重复组合

解题思路:

两层for循环+2Sum

代码:

```
class Solution {
public:
    vector<vector<int>> fourSum(vector<int>& n, int target) {
        vector<vector<int> > res;
        sort(n.begin(), n.end());
        for(int i = 0; i < n.size(); i++){</pre>
            if(i > 0 \&\& n[i] == n[i-1])
                continue;
            int t1 = target - n[i];
            for(int j = i + 1; j < n.size(); j++){
                int t2 = t1 - n[j];
                if(j > i+1 \&\& n[j] == n[j-1])
                     continue;
                int k = j + 1, l = n.size() - 1;
                while(k < 1){
                     if(n[k] + n[l] > t2)
                         1--;
                     else if(n[k] + n[l] < t2)
                         k++;
                    else{
                         res.push_back({n[i], n[j], n[k], n[l]});
                         while(k < n.size() - 1 && n[k] == n[k + 1]) k++;
                         while(l > k &  n[l] == n[l - 1]) l--;
                         k++;1--;
                     }
                }
            }
        }
        return res;
    }
};
```