# Combination Sum II

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Total Accepted:

Question

Solution

45886 Total

Submissions: 180560 Difficulty: Medium

Given a collection of candidate numbers (C) and a target number (T), find all unique combinations in C where the candidate numbers sums to T.

Each number in **C** may only be used **once** in the combination.

#### Note:

- All numbers (including target) will be positive integers.
- Elements in a combination  $(a_1, a_2, ..., a_k)$  must be in non-descending order. (ie,  $a_1 \le a_2 \le ... \le a_k$ ).
- The solution set must not contain duplicate combinations.

For example, given candidate set 10,1,2,7,6,1,5 and target 8,

A solution set is:

```
[1, 7]
```

[1, 2, 5]

[2, 6]

[1, 1, 6]

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С

 $\mathcal{C}$ 

```
1
 2
     * Return an array of arrays of size *returnSize.
3
     * The sizes of the arrays are returned as *columnSizes array.
     * Note: Both returned array and *columnSizes array must be malloced, assume caller cal
4
5
6
   xośeneviekaback (intilito gandinatectobate etantzuinterembedback)
7
        if(start >= end)return;
8
        int i=start,j=end,temp = candidates[start];
9
        while(i < j){
            while(i < j && candidates[j] >= temp)j--;
10
11
            if(i < j){
12
                 candidates[i] = candidates[j];
13
            while(i < j && candidates[i] < temp)i++;</pre>
14
15
            if(i < j){
```

```
16
                candidates[j] = candidates[i];
            }
17
18
        }
19
        candidates[i] = temp;
        quick_sort(candidates,start,i-1);
20
21
        quick sort(candidates,i+1,end);
22
    }
    void DFS(int* candidates,int candidatesSize,int step,int target,int* prefix,int prefixS
23
    umn){
24
        if(step >= candidatesSize)return;
25
        if(target <=0 )return;</pre>
26
        int i;
27
        for(i=step;i<candidatesSize;i++){</pre>
            if(i>step && candidates[i] == candidates[i-1])continue;
28
29
            if(candidates[i] > target)return;
30
            else if(candidates[i] == target){
                 returnColumn[*returnSize] = (int*)malloc(sizeof(int)*(prefixSize+1));
31
32
                 prefix[prefixSize] = candidates[i];
                memcpy(returnColumn[*returnSize],prefix,sizeof(int)*(prefixSize+1));
33
34
                columnSizes[0][*returnSize] = prefixSize+1;
35
                 (*returnSize)++;
36
                break;
37
            }else{
38
                 prefix[prefixSize] = candidates[i];
39
                DFS(candidates,candidatesSize,i+1,target-candidates[i],prefix,prefixSize+1,
40
            }
41
        }
42
    }
43
    int** combinationSum2(int* candidates, int candidatesSize, int target, int** columnSize
        quick sort(candidates,0,candidatesSize-1);
44
45
        int** returnColumn = (int**)malloc(sizeof(int*)*100000);
46
        int* prefix = (int*)malloc(sizeof(int)*100000);
        columnSizes[0] = (int*)malloc(sizeof(int)*100000);
47
48
        returnSize[0] = 0;
        DFS(candidates,candidatesSize,0,target,prefix,0,columnSizes,returnSize,returnColumn
49
        return returnColumn;
50
```

#### Custom Testcase

```
[10,1,2,7,6,1,5,1,1,1,2,4]
10
```

One line for one parameter.

Run Code

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