Combination Sum

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Total Question Solution

Accepted: 59694 Total Submissions: 212158 Difficulty: Medium

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

The **same** repeated number may be chosen from **C** unlimited number of times.

Note:

- All numbers (including target) will be positive integers.
- Elements in a combination (a₁, a₂, ..., a_k) must be in non-descending order. (ie, a₁ ≤ a₂
 ≤ ... ≤ a_k).
- The solution set must not contain duplicate combinations.

For example, given candidate set 2,3,6,7 and target 7,

A solution set is:

[7]

[2, 2, 3]

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Python

 \mathcal{C}

```
class Solution(object):
 1
         def combinationSum(self, candidates, target):
 2
 3
 4
              :type candidates: List[int]
 5
              :type target: int
              :rtype: List[List[int]]
 6
 7
              candidates = sorted(candidates)
 8
 9
              returnColumn = []
   Maltoadrinion Send Feedback fmaltoadrinion Feedback) Send Feedback fmaltoadrinion Send Feedback
10
              self.DFS(candidates,0,target,prefix,0,returnColumn)
```

```
12
            return returnColumn
13
        def DFS(self,candidates,step,target,prefix,prefixSize,returnColumn):
14
15
            if step > len(candidates):
16
                 return
17
            if target <= 0:
18
                return
19
            for i in range(step,len(candidates)):
                 if candidates[i] > target:
20
                     break
21
22
                elif candidates[i] == target:
                     newColumn = prefix[:prefixSize]
23
24
                     newColumn.append(candidates[i])
25
                     returnColumn.append(newColumn)
26
                     return
27
                else:
28
                     prefix[prefixSize] = candidates[i]
                     colf DEC/condidator i tanget
                                                       ndidatac[i] nnafiv nnafivCi-
```

Custom Testcase

Run Code

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