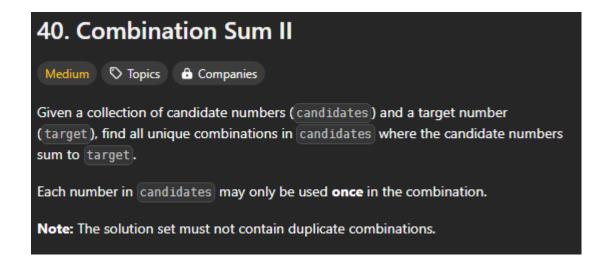
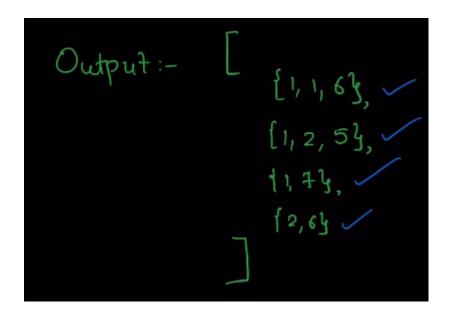
## 40 Combination Sum II - 13/08/24 (medium)



whenever there use all combination , all permutation then use backtracking to solve it

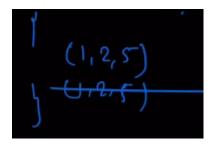
## For Example

combine two unquie number to find find combination sum for a target value. (target =8)



The solution set must not contain duplicate combinations.

when value = [1,2,5,1,2,5]



like this dont use two same combination

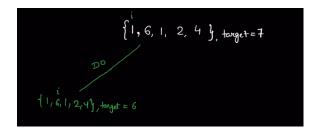


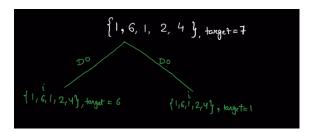


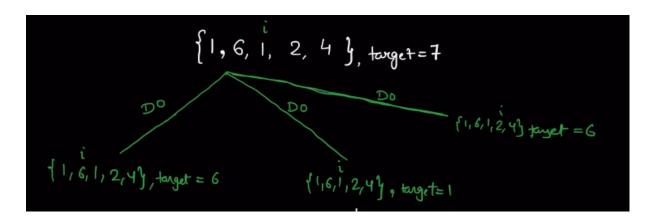
start:

here (target) **7** - (i) **1 = new target = 6** target = 1

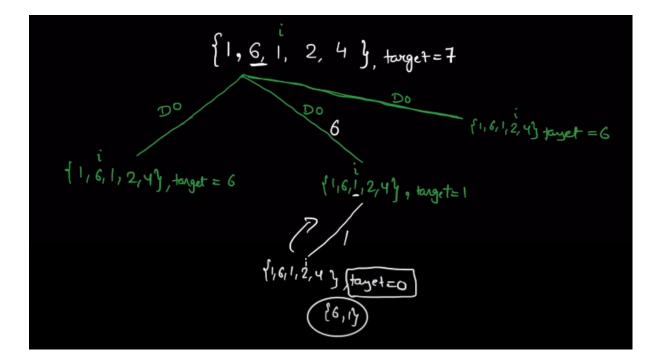
here (target) **7** - (i) 6 = new

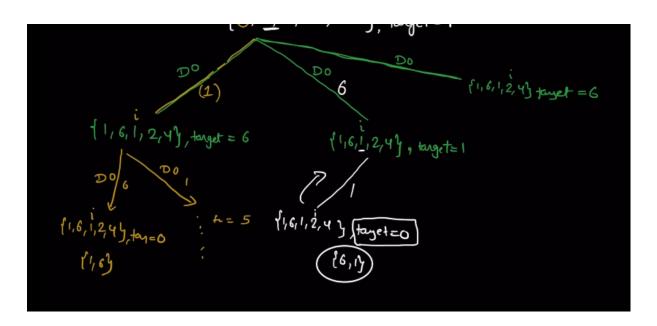






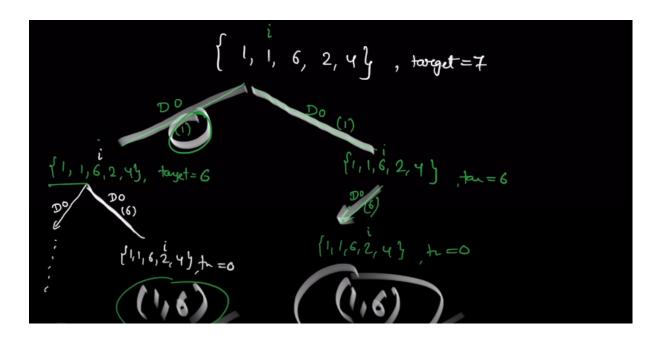
WE RETURN when we found the target or get target = 0





we try out all possibility and we found the answer:

let try out with different target and new array of numbers



but we get duplicate answer

## Code

```
class Solution {
public:
    void solve(vector<int>& candidates, int target, vector<int</pre>
        if(target<0)
             return;
        if(target==0){
             result.push_back(current);
             return ;
        }
        for(int i=idx;i<candidates.size();i++){</pre>
             if(i>idx && candidates[i]==candidates[i-1]){
                 continue;
            }
            current.push_back(candidates[i]);
            solve(candidates, target-candidates[i], current, i+1
            current.pop_back();
```

```
}

vector<vector<int>> combinationSum2(vector<int>& candidate

vector<vector<int>> result;

vector<int> current;

sort(begin(candidates), end(candidates));

solve(candidates, target, current, 0, result);

return result;

}

};
```

## You tube video

https://www.youtube.com/watch?v=bfKwLi6jtDk