377. Combination Sum IV QuestionEditorial Solution My Submissions

Total Accepted: 1333
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Difficulty: Medium

Given an integer array with all positive numbers and no duplicates, find the number of possible combinations that add up to a positive integer target.

Example:
nums = [1, 2, 3]
target = 4
The possible combination ways are:
(1, 1, 1, 1)
(1, 1, 2)
(1, 2, 1)
(1, 3)
(2, 1, 1)
(2, 2)
(3, 1)
Note that different sequences are counted as different combinations.
Therefore the output is 7.

Follow up:
What if negative numbers are allowed in the given array?
How does it change the problem?
What limitation we need to add to the question to allow negative numbers?

```
class Solution {
public:
    int combinationSum4(vector<int>& nums, int target) {
        vector<int> result(target+1,0);
        result[0]=1;
        vector<int>::iterator it;
        for(int i=1;i<=target;i++)
        {
            for(it=nums.begin();it!=nums.end();it++)
            {
                int x = *it;
                if(i>=x)
                {
                    result[i] = result[i] + result[i-x];
                }
            }
        }
        return result[target];
    }
};
```