

Target Sum

Problem Statement:

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[Suggest Edit](#)

You are given an array 'ARR' of 'N' integers and a target number, 'TARGET'. Your task is to build an expression out of an array by adding one of the symbols '+' and '-' before each integer in an array, and then by concatenating all the integers, you want to achieve a target. You have to return the number of ways the target can be achieved.

For Example :

You are given the array 'ARR' = $[1, 1, 1, 1, 1]$,
'TARGET' = 3. The number of ways this target can be achieved is:

1. $-1 + 1 + 1 + 1 + 1 = 3$
2. $+1 - 1 + 1 + 1 + 1 = 3$
3. $+1 + 1 - 1 + 1 + 1 = 3$
4. $+1 + 1 + 1 - 1 + 1 = 3$
5. $+1 + 1 + 1 + 1 - 1 = 3$

} There are 5 ways
I can assign +, -

These are the 5 ways to make. Hence the answer is 5.

$$\text{arr} = \{1, 2, 3, 1\}$$

$$\text{target} = 3$$

$$\text{arr} = \{1, 2, 3, 1\}$$

Basically

we have assign +, or -

So, we have 2 operators $+$ or $-$, so, we can ~~add~~ assign $+$ to some element and $-$ to some and total should be our target.

$$+1 +1 -1 -1 -1$$

$$(1+1) - (1+1+1) = \text{Target}$$

$$S_1 - S_2 = \text{Target}$$

$$\boxed{S_1 - S_2 = \text{Target}}$$

↓

Pathhan Question

$$S_1 + S_2 = \text{Total Sum}$$

$$S_1 = TS - S_2$$

$$S_1 - S_2 = \text{Target}$$

8. $T_8 - G_2 - G_2 \sim \text{Target}$

$T_3 - 2S_2 \cdot v$ T_{target}

$$2S_2 \equiv TS - T_{\text{target}}F$$

$$\textcircled{S_2} \cdot \frac{T_s - \text{Target}}{2} \rightarrow \underline{\underline{\text{Target Sum}}}$$

let say,

Total Sum - Target ≥ 0 & even

 $f($

return 1,

1 1 1 1

to

$5 - 3 = 2$
 $5 - 6 = -1$
 even
 1 1 1 -

Recursion Relation:

We have to count the no. of ways

$\begin{array}{c} 1 \rightarrow \\ \boxed{1} \rightarrow \\ \boxed{2} \rightarrow 1 \\ \boxed{3} \rightarrow x \end{array}$

if (target == 0) return 1,

if (i < 0) return arr[i] == target,

if

not pick = f(i-1, target),

pick = 0,

if (arr[i] <= k) pick = f(i-1, target - arr[i]),

return pick + notpick

if Constraint allow 0.

1+1=2

0

if (i == 0)

if (k == 0 && arr[0] == 0) return 02,

if (k == 0 || arr[k] == 0) return 1,

~~else~~
return 0;