**Problem link**: [Target Sum](https://www.codingninjas.com/codestudio/problems/target-sum_4127362?source=youtube&campaign=striver_dp_videos&utm_source=youtube&utm_medium=affiliate&utm_campaign=striver_dp_videos)

**Approach:** For every possible solution we have couple of elements with +ve sign & -ve sign, in other way we can see it as +ve elements sum is s1 and -ve elements sum is s2

and their difference is actually d (target) also if we sum s1+s2 gives totalSum.

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 **4 - 1 => s1- s2 = 3(d)**

2. +1 - 1 + 1 + 1 + 1 = 3 **4 - 1 => s1 + s2 = 5 (totalSum)**

3. +1 + 1 - 1 + 1 + 1 = 3 **4 - 1**

4. +1 + 1 + 1 - 1 + 1 = 3 **4 - 1**

5. +1 + 1 + 1 + 1 - 1 = 3 **4 - 1**

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

How to solve ? same as DP-18 [link](https://docs.google.com/document/d/15Gad1Wwd1QuDjWzpnDaNApaSxzFh_9odvYlXeuaUwEk/edit)