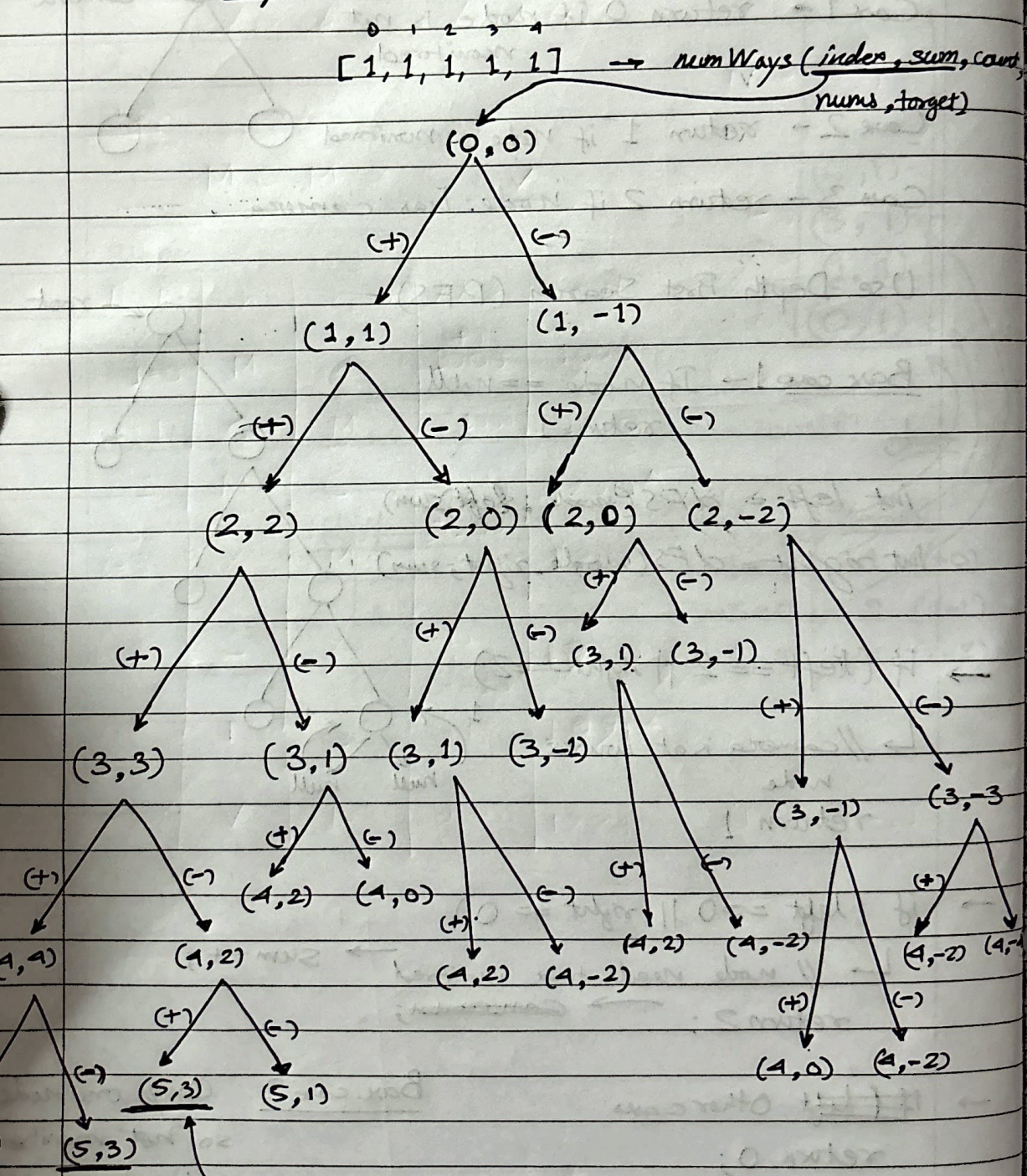# LEETCODE | 494!

Target Sum

Input → nums = [1, 1, 1, 1, 1], target = 3
Output = 5

Hint → Each element has two sign options (+) or (-)
To find out each time it meets sum = target, we
need to explore all paths → Recursion

```
          0  1  2  3  4
        [1, 1, 1, 1, 1]   →   numWays (index, sum, count,
                                        nums, target)
```


Base Case

Steps

1) numWays (index , sum, Count , nums, target) {

   //Base case

   if (index == nums.length){
       if (target == sum) {
           Count ++;
       return;
   }

   // recursive call

   // (+) add

   numsWays (index + 1, sum + nums[index], Count, nun, target);

   // (-) subtract

   numsWays (index +1, sum – nums[index], count, nuns, target)

   }

2) Call method above

   numsWays (0, 0, 0, nuns, target)

3) Return count;