Problem Link:

<https://leetcode.com/problems/count-the-hidden-sequences/description/?envType=daily-question&envId=2025-04-21>

Solution:

class Solution {

public:

int numberOfArrays(vector<int>& differences, int lower, int upper) {

long long min\_sum = 0, max\_sum = 0, curr = 0;

for(int diff : differences)

{

curr += diff;

min\_sum = min(min\_sum, curr);

max\_sum = max(max\_sum, curr);

}

long long min\_x = lower - min\_sum;

long long max\_x = upper - max\_sum;

return max(0LL, max\_x - min\_x + 1);

}

};