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Given a number N, say in how many different ways can you write the number N as a sum of 1 and 2.Note that '1+2' is different than '2+1'.

1 = 1

2 = 1+1

2 = 2

3 = 1+1+1

3 = 2+1

3 = 1+2

Given a number N, say in how many different ways can you write the number N as a sum of 1,2 and 3.Note that '1+3' is different than '3+1'.

dp[N] = number of diff ways to write the num N as a sum of 1,2,3

dp[N] = dp[N-1]+dp[N-2]+dp[N-3]

dp[0] = 1

dp[What you know] = what you don't know.

\*/