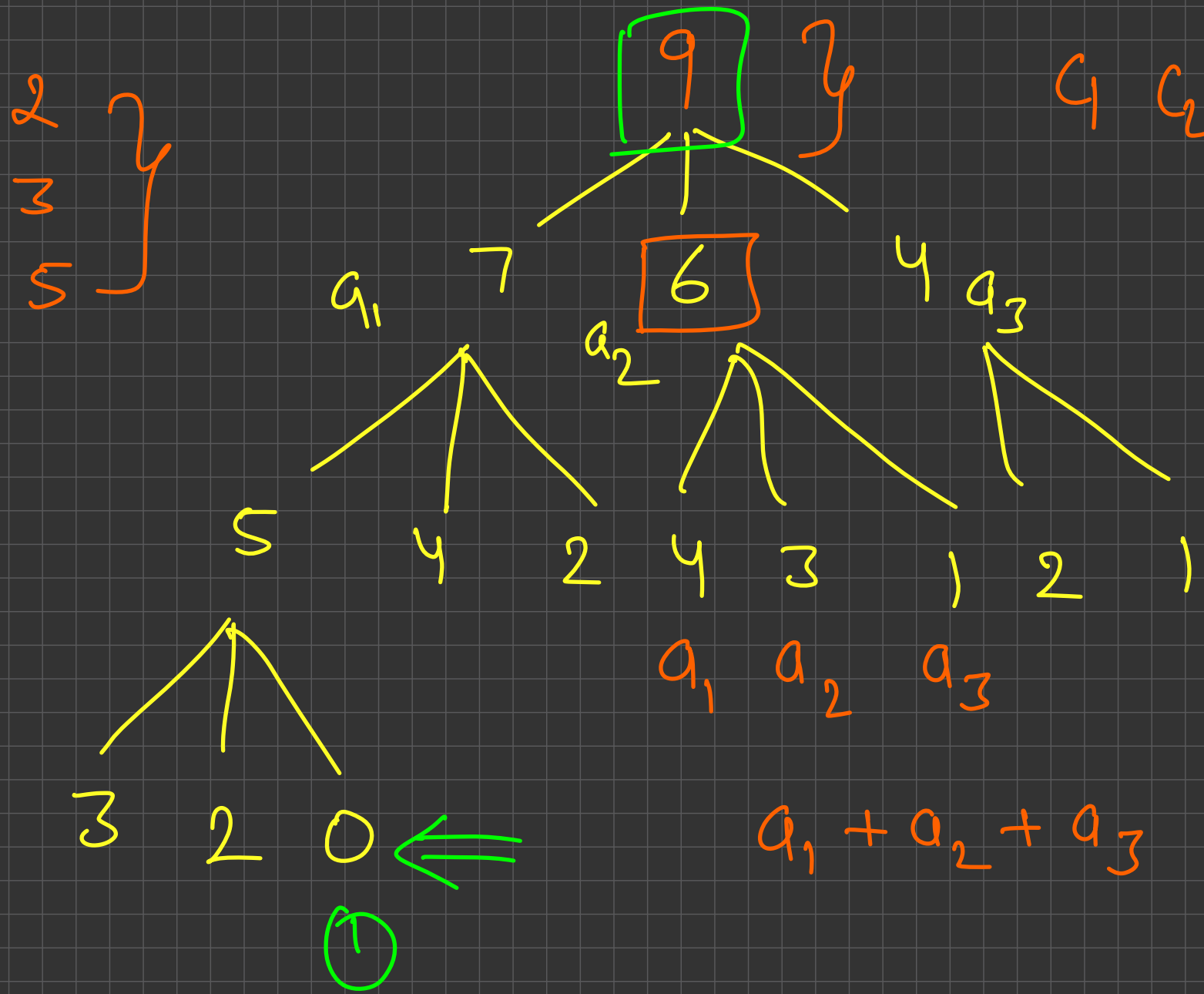
2
3
5
9
c_1 c_2 ... c_n
a_1 7
6
a_2
4 a_3
5 4 2 4 3 1 2 1
a_1 a_2 a_3
3 2 0
1
$a_1 + a_2 + a_3$

$dp[k]$ = no. of ways to get the sum k

$$dp[k] = \sum_{i=1}^{n} dp[k - c_i]$$

$dp[0] = 1$

final subproblem : $dp[x]$

Time complexity :

states × avg transition time

$O(x) \times O(n)$

$= O(n \cdot x)$

Space complexity :

states $= O(x)$