dp[N][0]=1

ROOT IN THE SET BUT COVERED BY CHILDREN

dp[N][1]=1

ROOT NOT IN THE SET AND STILL TO BE COUSNED

then, GONG FROM LEAVES UP )

for L in reverse (layers):

for M in L:

dp[N][0] = T (dp[V][0] + dp[V][1] + dp[V][2])

vechildren(N)

dp[N][1] = T (dp[V][0] + dp[V][1])

- T dp[N][1]

vechildren(N)

dp[u][2] = T (dp[v][i])
vechildron(n)

co MPLEXITY: O(n)