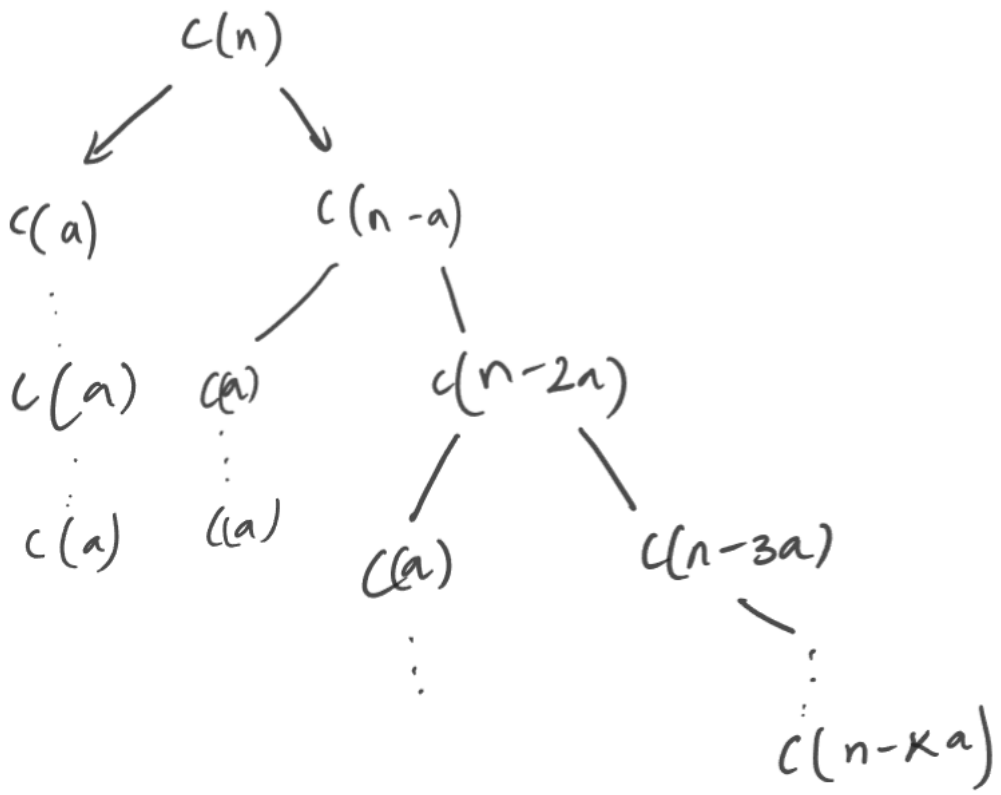
We can multiply $T(n)$ by the constant c and find the recursion tree without including the C(n) term everytime.



For each level, we can calculate the total cost. Then, we can add the costs from all levels to find the final cost.

for the zeroeth level, the cost is $c(n)$

for first level, the cost is $c(n-a)+c(a)$

similarly,

for the k-th level, the cost is $c(n-ka)+kc(a)$

$T(n) = \sum_{i=0}^{i=k} c(n-ia) + ic(a) = \sum_{i=0}^{i=k} c(n) = cn^2/a - n/a = O(n^2)$