Analyzing the running time

The running time $t_2(n)$ for this algorithm satisfies

- $t_2(1) \leq C_0$
- $t_2(2) \leq C_1$
- $t_2(n) = t_2(n-1) + C_2$ if $n > 2$

for some positive constants C_0, C_1, C_2.

Note the difference in the recursive definition for $t_1(n)$ and $t_2(n)$.