11) $T(n)\begin{cases} c_1 & n \le 1 \\ c_2 + T(n-1) \end{cases}$

paso 1 $c_2 + T(n-1)$ $n > 1$

paso 2 $c_2 + (c_2 + T(n-1-1))$ $n-1 > 1$

paso 3 $c_2 + c_2 + c_2 + T(n-1-1-1)$ $n-2 > 1$

paso i $ic_2 + T(n-i)$

$n - i \le 1$

$n \le 1 + i$

$n - 1 \le i$

$(n-1)c_2 + T(n-(n-1))$

$nc_2 - c_2 + T(1)$

$nc_2 - c_2 + c_1$

$c_1 < n$ $\}$ $c = c_1$ $n_0 = 1$ $\quad$ $c_1 < c_1 n$ $\}$

$n < n$ $\}$ $c = c_2$ $nc_2 < c_2 n$ $\}$ $n_0 = 0$

$-c_2 < n$ $\}$ $c = 0$ $n_0 = 0$

$c_1 < n$ $\}$ $c = c_1$

$c_1 < c_1 n$ $\}$ $n_0 = 1$

$T(n) \le O(n)$, $c = c_1 + c_2$, $N \ge n_0$, $N_0 = 1$