Daniel Assasi Roch

Ejercico z

Buche for Interno:

$$T(n) = \begin{cases} \lambda & n \leq \lambda \\ \mu & T(n/2) + n \end{cases} \quad n > \lambda$$

Buce for externo:
$$- > = 1 + \sum_{i=1}^{n-2} (4) = n-2+1 = n-1 \in \Theta(n)$$

$$T(n) = U \cdot T\left(\frac{n}{2}\right) + n$$

$$= U \left[U \cdot T\left(\frac{n}{2}\right) + \frac{n}{2}\right] + n = U^{2} \cdot T\left(\frac{n}{4}\right) = U^{2}\left[U \cdot T\left(\frac{n}{8}\right) + \frac{n}{4}\right]^{4} \frac{n}{2} + n$$

$$= U^{3} \cdot T\left(\frac{n}{8}\right) + U^{2} = U^{3}\left[U \cdot T\left(\frac{n}{16}\right) + \frac{n}{8}\right] + U^{2} \cdot \frac{n}{4} + \frac{u_{n}}{2} + n =$$

$$= U^{4} \cdot T\left(\frac{n}{16}\right) + U^{3} \cdot \left(\frac{n}{8}\right) + U^{2}\left(\frac{n}{4}\right) + \frac{u_{n}}{2} + n =$$

$$= U^{4} \cdot T\left(\frac{n}{16}\right) + U^{3} \cdot \left(\frac{n}{8}\right) + U^{2}\left(\frac{n}{4}\right) + \frac{u_{n}}{2} + n =$$

$$= U^{4} \cdot T\left(\frac{n}{16}\right) + U^{3} \cdot \left(\frac{n}{8}\right) + U^{2}\left(\frac{n}{4}\right) + U^{3} \cdot n + 2^{2}n + 2^{$$