

$$k_{i-1} + 1 = k_i \quad 2k_i = S_i$$

$$S_{i-1} = S_i$$

$$\begin{aligned} & t_i + \phi(T_i) - \phi(T_{i-1}) \\ &= 1 + 2k_i - S_i - S_{i-1}/2 + k_{i-1} \\ &= 1 + S_i - S_i - S_i/2 + S_i/2 - 1 \\ &= 0 \end{aligned}$$

$$(1) \quad n \cdot T(n) = 2 \sum_{k=0}^{n-1} T(k) + c \cdot n^2$$

$$(2) \quad (n-1) \cdot T(n-1) = 2 \sum_{k=0}^{n-2} T(k) + c \cdot (n-1)^2$$

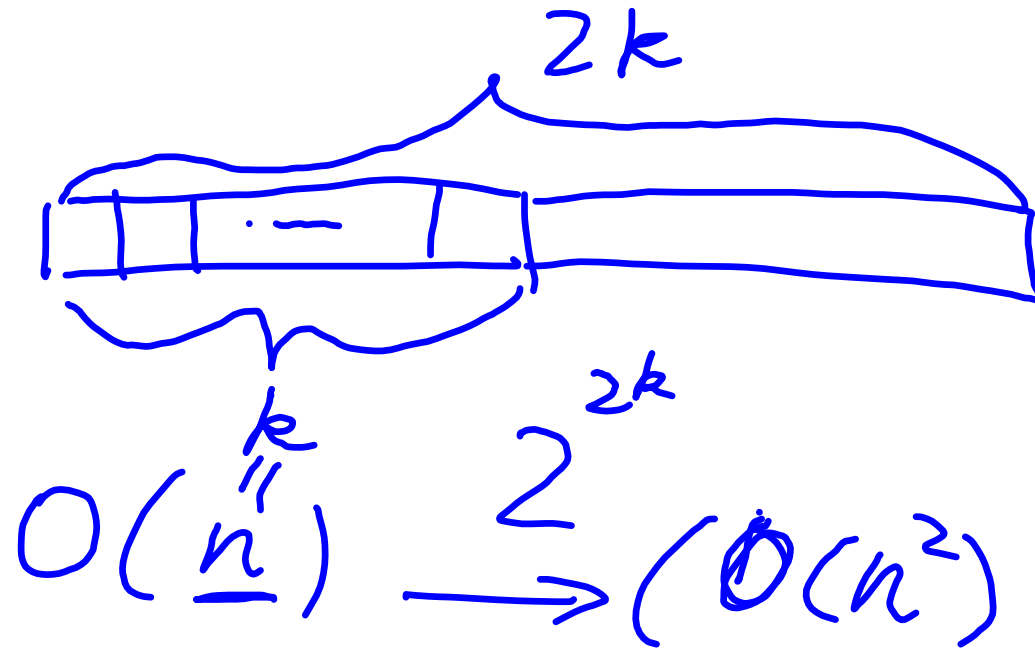


$$n \cdot T(n) - (n-1) T(n-1)$$

$$= 2 \cdot T(n-1) + 2cn$$

$$n \cdot T(n) - (n+1) T(n-1) = 2cn$$

$$\frac{T(n)}{n+1} = \frac{T(n-1)}{n} + \frac{2cn}{n \cdot (n+1)}$$



a^n

PK

$P_n K$