5
$$T(n) = 2T(\frac{m}{2}) + \Theta(n^2) \rightarrow T(1) = \Theta(1)$$

Methods iteration

$$T(m) = 2\left[2T(\frac{m}{2}) + \Theta(\frac{m^2}{2})\right] + \Theta(m^2)$$

$$T(m) = 2^KT(\frac{m}{2^K}) + \sum_{i=0}^{K-1} 2^i\Theta(\frac{m}{2^i})^2 \qquad K = \text{log}(m)$$

$$T(m) = 2^{log(m)}\Theta(1) + \Theta(n^2)$$

$$T(m) = \Theta(m) + \Theta(m^2) \cdot 1$$

$$T(m) = \Theta(m) + \Theta(m^2) \cdot 1$$

$$T(m) = \Theta(m^2)$$

Methods principale

$$S(m) = m^2 \qquad m^{log_0a} = m^{log_02} = m$$

$$S(m) = \Omega \qquad (m^{log_0a}) \qquad E \qquad \Theta(\frac{m^2}{2}) \leq C \cdot \Theta(m^2)$$

othere $T(m) = \Theta(m^2)$

methods bli sostituarina
$$T(m) = 2T(\frac{m}{2}) + Cm$$

$$T(1) = d$$

$$110 + 12 \times 20$$

$$C.B. d \leq K$$

$$C.B$$