

$$\begin{array}{c}
 T(n) = \begin{array}{c} n^2 \\ \swarrow \quad \searrow \\ T(n/4) \quad T(n/2) \end{array}
 \end{array}
 =
 \begin{array}{c}
 \begin{array}{c} n^2 \\ \swarrow \quad \searrow \\ (n/4)^2 \quad (n/2)^2 \\ \swarrow \quad \searrow \quad \swarrow \quad \searrow \\ T(n/16) \quad T(n/8) \quad T(n/8) \quad T(n/4) \end{array}
 \end{array}$$