













$$T(n) = 3T(n/4) + n^2$$

Master method:

if
$$f(n) = O(n^{\log_b a - \varepsilon})$$
 for $\varepsilon > 0$, then $T(n) = \Theta(n^{\log_b a})$

if
$$f(n) = \Theta(n^{\log_b a})$$
, then $T(n) = \Theta(n^{\log_b a} \log n)$

if
$$f(n) = \Omega(n^{\log_b a + \varepsilon})$$
 for $\varepsilon > 0$ and $af(n/b) \le cf(n)$ for $c < 1$
then $T(n) = \Theta(f(n))$







