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1-) $T(n) = T(n/2) + 1$

$T(n) = \log(n)$

$= O(\log(n))$

2-) $T(n) = T(n/4) + 1$

$n^{\log_4 1} = 1$

$n^{\log_4 1} \cdot \log(n)$

$= O(\log(n))$

3-) $T(n) = O(n^3)$ $\Omega(n^2)$

4-) $T(n) = (n-1)(T(n-1) + 1$

$= O(n!)$

5-) $T(n) = 2T(n/2) + n$

$= O(n \log n)$