

$$\begin{aligned}
 t(n) &= lt(n \div b) + g(n^k) \\
 &= lt(n \div b) + cn^k
 \end{aligned}$$

$$\bullet \quad t(n) = \begin{cases} O(n^k) & \text{if } l < b^k \\ O(n^k \log n) & \text{if } l = b^k \\ O(n^{\log_b l}) & \text{if } l > b^k \end{cases}$$