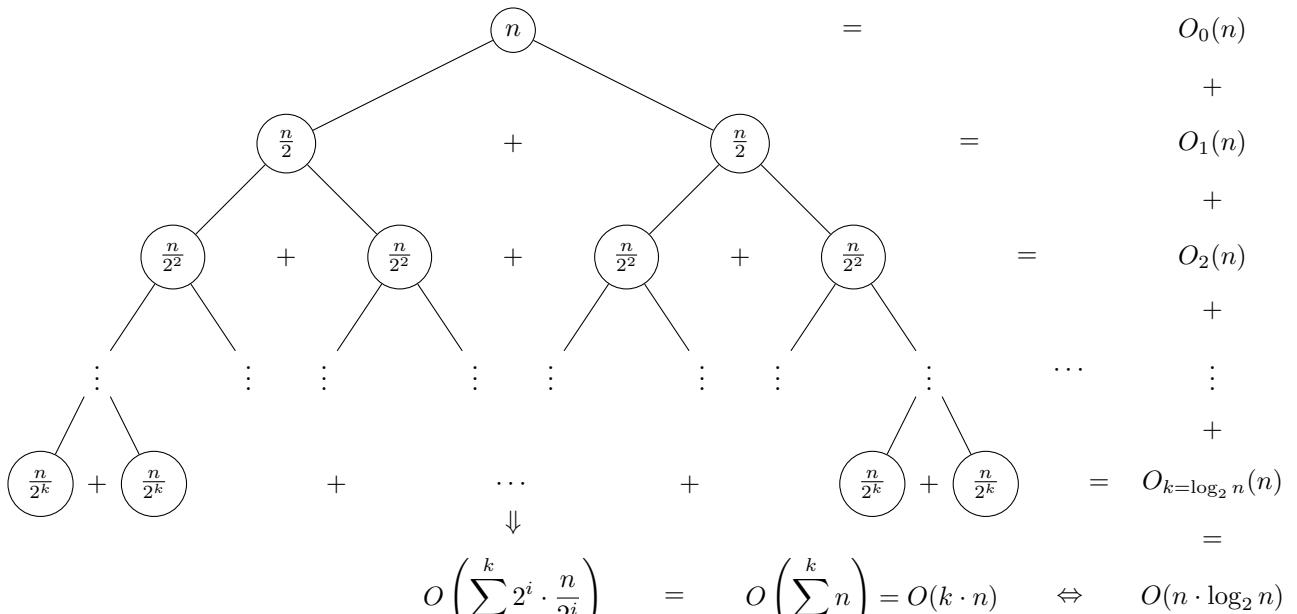
n
$\frac{n}{2}$
$\frac{n}{2}$
$\frac{n}{2^2}$
$\frac{n}{2^2}$
$\frac{n}{2^2}$
$\frac{n}{2^2}$
$\frac{n}{2^k}$
$\frac{n}{2^k}$
$\frac{n}{2^k}$
$\frac{n}{2^k}$
$+$
$\cdots$
$\vdots$
$\Downarrow$
$=$
$O_0(n)$
$O_1(n)$
$O_2(n)$
$O_{k=\log_2 n}(n)$
$O\left(\sum_{i=0}^{k} 2^i \cdot \frac{n}{2^i}\right) = O\left(\sum_{i=0}^{k} n\right) = O(k \cdot n) \Leftrightarrow O(n \cdot \log_2 n)$