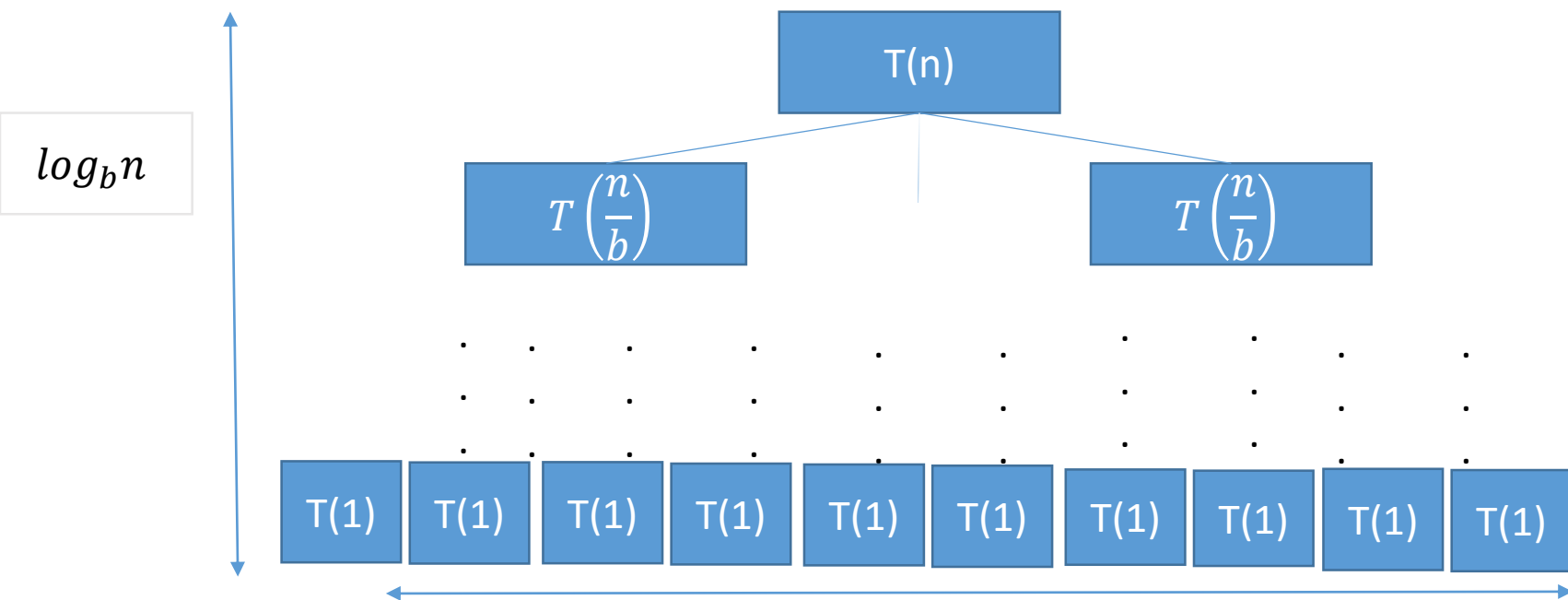


$$T(n) = aT\left(\frac{n}{b}\right) + f(n)$$



Non recursion cost

$f(n)$

$af\left(\frac{n}{b}\right)$

$a^2 f\left(\frac{n}{b^2}\right)$

$a^i f\left(\frac{n}{b^i}\right)$

$$T(n) = \sum_{i=0}^{\log_b n - 1} a^i f\left(\frac{n}{b^i}\right) + cn^{\log_b a}$$