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

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

 $log_b n$

Non recursion cost

f(n)

 $af(\frac{n}{h})$

 $a^2 f(\frac{n}{h^2})$

 a^i f($\frac{n}{h^i}$)