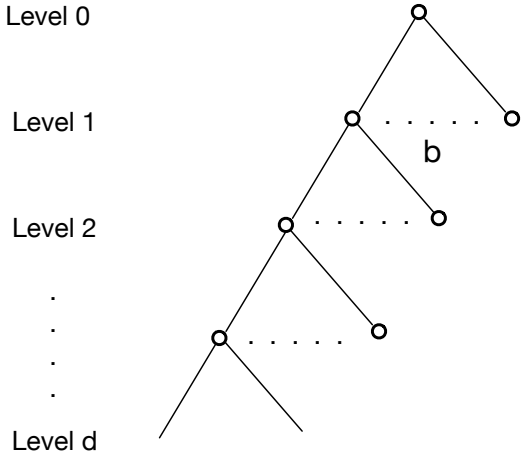
b: branching factor

d: depth



No. Nodes

1

b

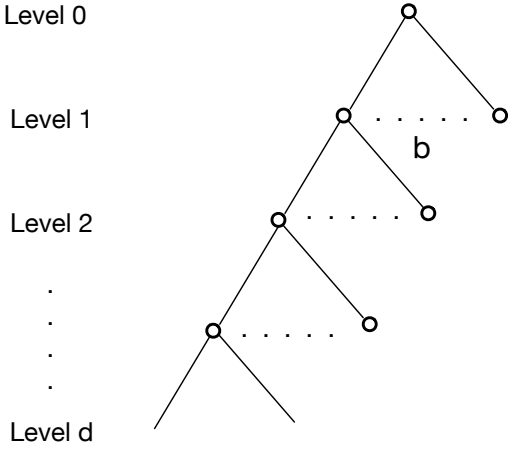
b^2

b^d

Total = $1 + b^1 + b^2 + \ldots + b^d$

$= \frac{b^{d+1} - 1}{b - 1}$

$= O(b^d)$



	No. Nodes	Iterative Depending
Level 0	1	d+1
Level 1	b	d
Level 2	b^2	d-1
Level d	b^d	1

visit root with depth 0, 1, ... d.

visit level 1 ... d

b: branching factor

d: depth

Total = $1 + b^1 + b^2 + \ldots + b^d$

$= \frac{b^{d+1} - 1}{b - 1}$

$= O(b^d)$