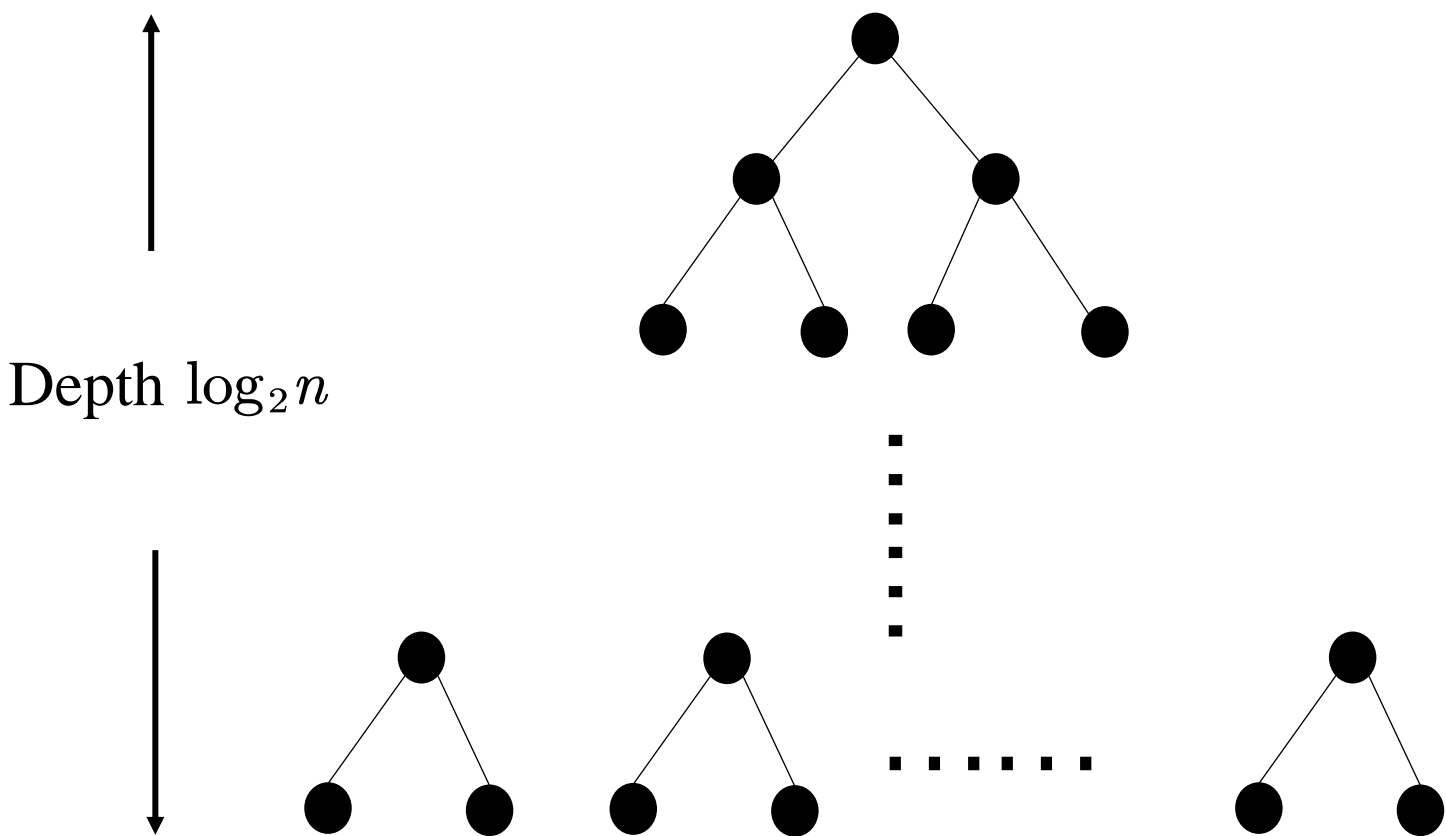


Recurrence Tree $T(n)$



Level	Computation
Level 1	$O(n \log n)$
Level 2	$2 \times O\left(\frac{n}{2} \log \frac{n}{2}\right)$
Level j	$2^{j-1} \times O\left(\frac{n}{2^{j-1}} \log \frac{n}{2^{j-1}}\right)$
Totally $k = \log_2 n + 1$ levels	
Level k	$2^{k-1} \times O\left(\frac{n}{2^{k-1}} \log \frac{n}{2^{k-1}}\right)$