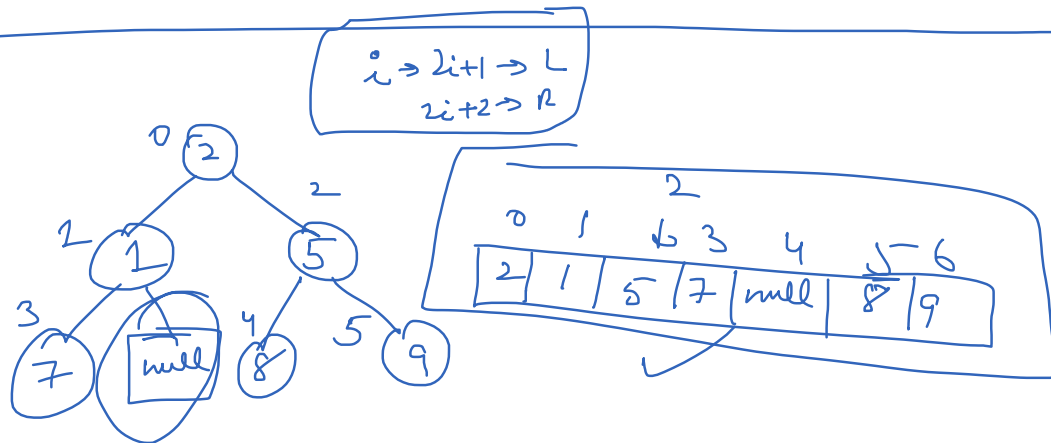H.W.
1. Randomly generate 10 integers(between 1 and 10) and find the probability of each number occurring using Map.

Using Map

| 0 | 0 | 1 | 2 | 5 | 9 | 2 | 4 | 3 | 1 |

$0 \to \dfrac{2}{10}$ $1 \to \dfrac{2}{10}$ $2 \to \dfrac{2}{3}$

Key   Value

$3 \to \dfrac{1}{10}$, $4 \to \dfrac{1}{10}$, $9 \to \dfrac{1}{10}$

Trees

$i \to 2i+1 \to L$
    $2i+2 \to R$

| 2 | 1 | 5 | 7 | null | 8 | 9 |
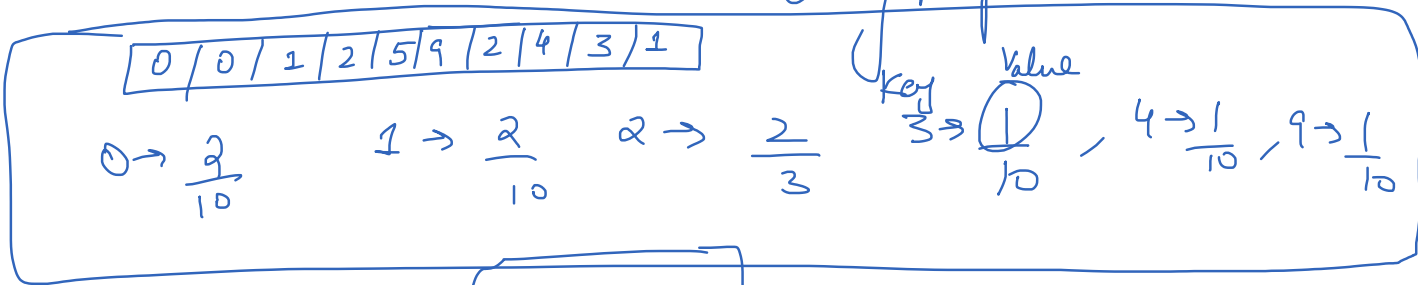
Height of an empty tree is -1.
Height of a tree with only the node is 0.