

## Project 3 | BINARY BRANCH PROJECT

### [7, 5, 1, 8, 3, 6, 0, 9, 4, 2] -> Binary Search Tree

Root->7

5<7 ? Y  $\rightarrow$  [5, 7, 1, 8, 3, 6, 0, 9, 4, 2]

$1 < 7 ? Y - 1 < 5 ? Y \rightarrow [1, 5, 7, 8, 3, 6, 0, 9, 4, 2]$

3<7 ? Y - 3<5 ? Y - 3<1 ? N -> [1, 3, 5, 7, 8, 6, 0, 9, 4, 2]

$6 < 7 ? Y - 6 < 5 ? Y \rightarrow [1, 3, 5, 6, 7, 8, 0, 9, 4, 2]$

0<7 ? Y - 0<5 ? Y - 0<1 ? Y -> [0, 1, 3, 5, 6, 7, 8, 9, 4, 2]

4<7 ? Y - 4<5 ? Y - 4<3 ? N - 4<1 ? N -> [0, 1, 3, 4, 5, 6, 7, 8, 9, 2]

$2 < 7 ? Y - 2 < 5 ? Y - 2 < 3 ? Y - 2 < 1 ? N \rightarrow [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]$

[illegible]

58

16

[illegible]

2