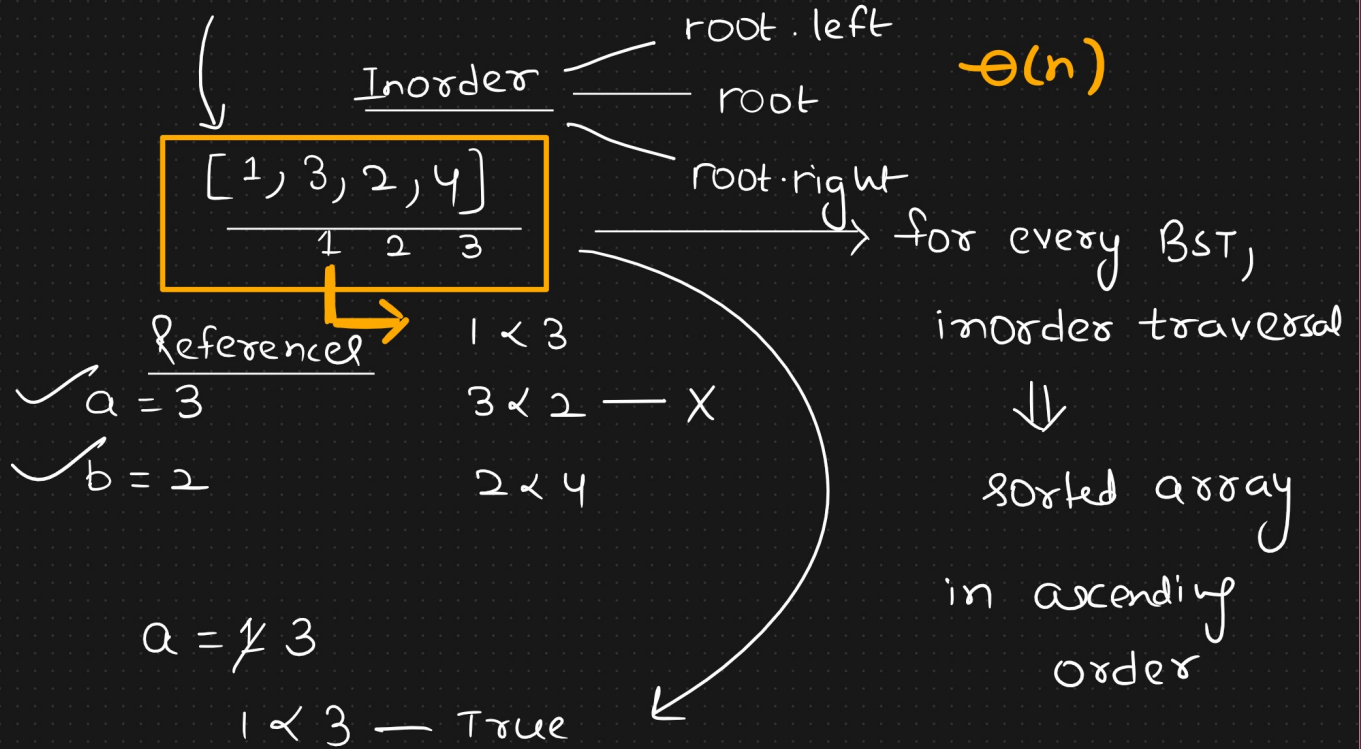
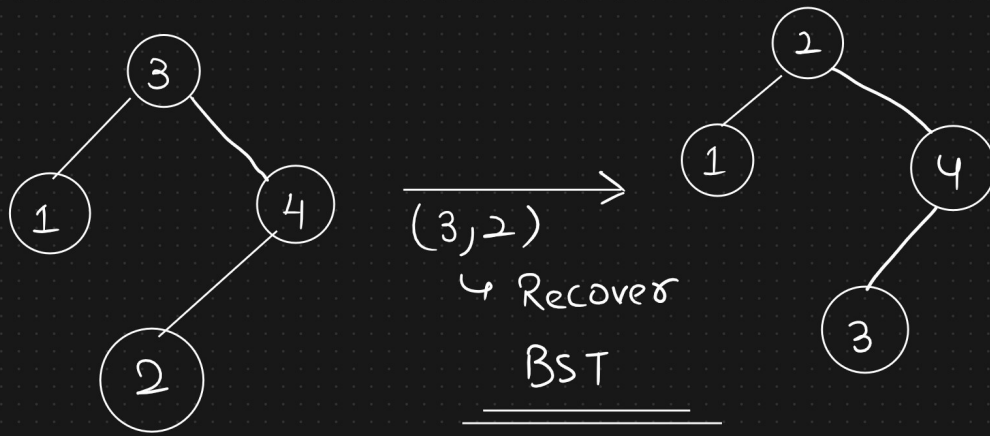


Recover Binary Search Tree



(1, 3, 2, 4)
0 1 2 3
↑

~~a = 1~~ 3

i = 1

3 < 1 — No

i = 2

2 < 3 — Yes

i = 2

~~b = 4~~ 2

2 > 4 — No

i = 1

3 > 2 — Yes

Inorder Traversal

Swaps are not adjacent

Swaps are adjacent

3, 25, 7, 8, 10, 15, 20, 5
 ↑ ↑ ↑
 first mid last

$3 < 25$

$25 < 7$

$7 < 8$

$8 < 10$

$10 < 15$

$15 < 20$

$20 < 5$

first & last

↳ swap the
value of

first & last

3, 5, 8, 7, 10, 15, 20, 25

$3 < 5$ | $8 < 7$ | mid
 first

$5 < 8$

last → null

$8 < 7$

$7 < 10$

$10 < 15$

$15 < 20$

$20 < 25$

else:

swap the
value of
first &
mid