Trinode Restructuring after Deletion: Single Rotation

- Insert the following sequence of keys into an empty BST:

  <44, 17, 62, 32, 50, 78, 48, 54, 88>

- Delete 32 from the BST.

Trinode Restructuring after Deletion: Single Rotation

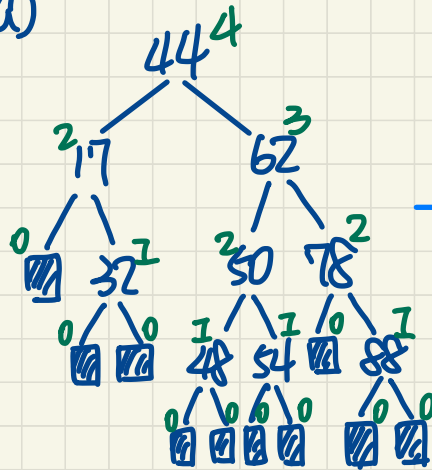- Insert the following sequence of **keys** into an empty BST:

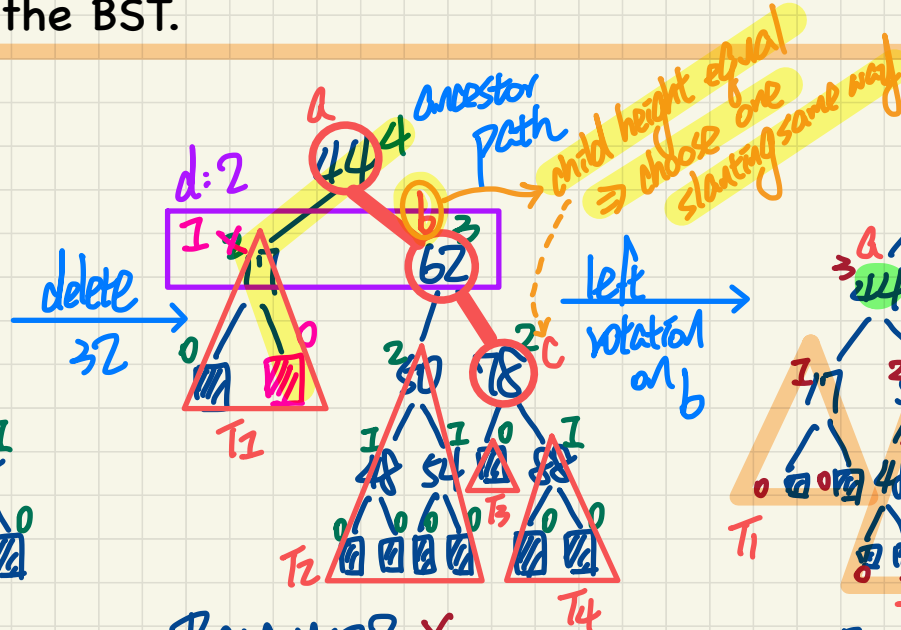 <44, 17, 62, 32, 50, 78, 48, 54, 88>
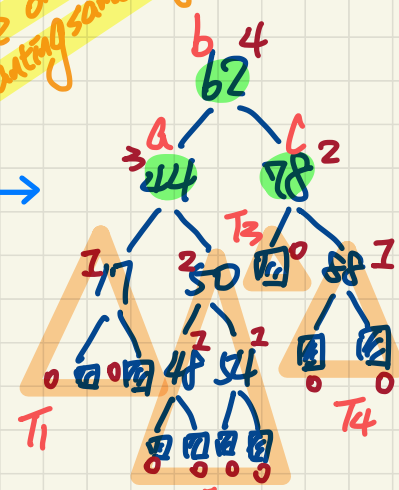
- Delete 32 from the BST.

(a)

BALANCED? ✓

delete 32

$d:2$

a 44 ⁴ ancestor path

child height equal ⇒ choose one slanting same way

I x T_1

b 62

T_2

c 78

T_3 T_4

BALANCED? ✗

left rotation on b

b 62 ⁴

a 44 c 78

T_1 T_2 T_3 T_4

BALANCED? ✓