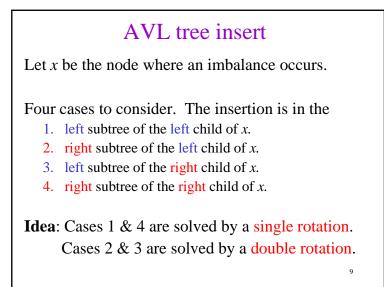


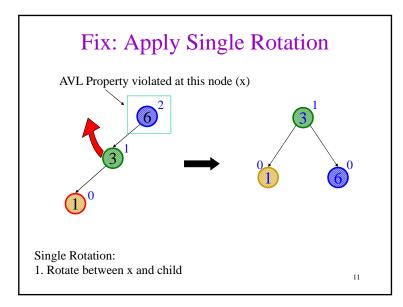
AVL trees: find, insert

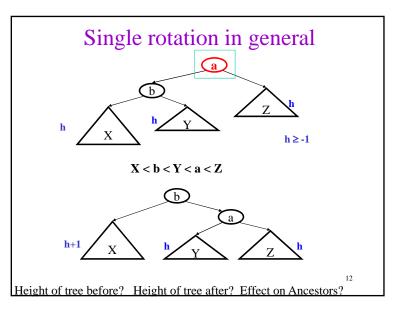
- AVL find:
 - same as BST find.
- AVL insert:
 - same as BST insert, *except* may need to "fix" the AVL tree after inserting new value.

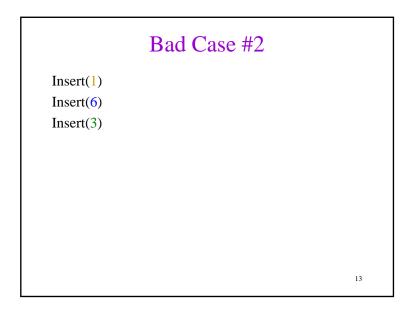
8

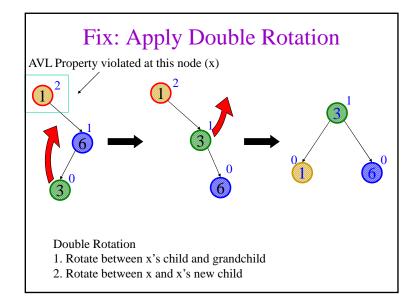


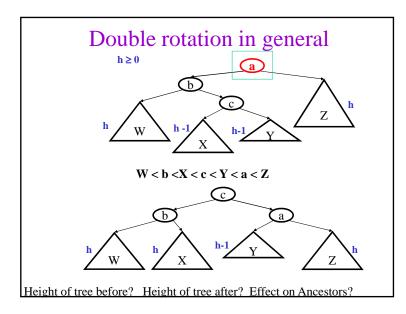
Bad Case #1 Insert(6) Insert(3) Insert(1)

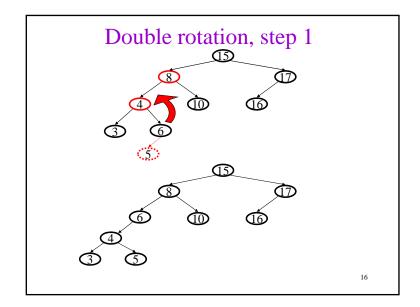


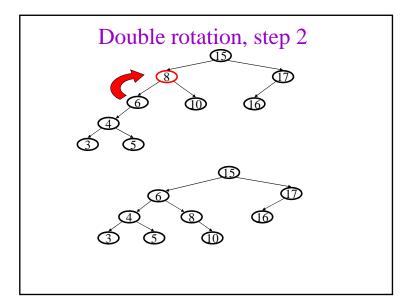












Imbalance at node X

Single Rotation

1. Rotate between x and child

Double Rotation

- 1. Rotate between x's child and grandchild
- 2. Rotate between x and x's new child

