



































- Splay trees tend to be balanced
  - > M operations takes time O(M log N) for M  $\geq$  N
  - operations on N items. (proof is difficult)
  - > Amortized O(log n) time.
- Splay trees have good "locality" properties
  - Recently accessed items are near the root of the tree.
  - Items near an accessed one are pulled toward the root.

19

Splay Trees

## Splay Trees vs. AVL Trees

- AVL trees: INSERT and DELETE operations keep tree balanced;
  FIND operations have no effect.
  - Splay trees:
  - Repeated FIND operations tend to produce balanced trees.

Splay Trees

20