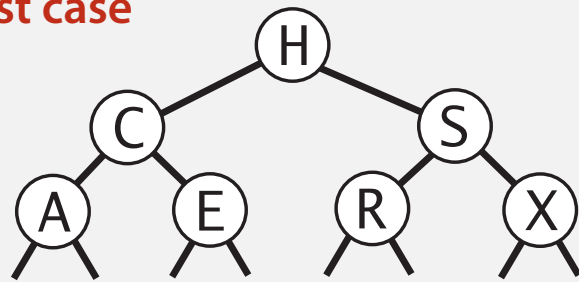# Tree shape
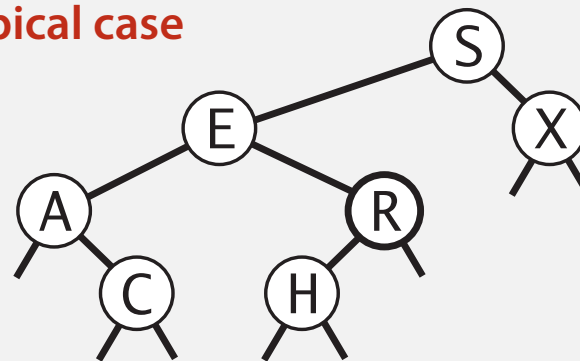
- Many BSTs correspond to same set of keys.
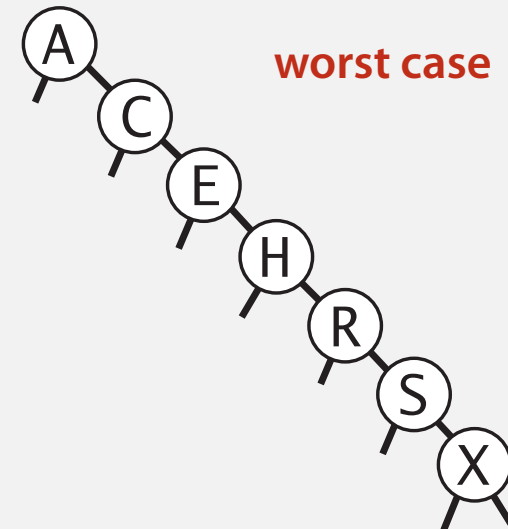- Number of compares for search/insert is equal to $1 +$ depth of node.

best case

typical case

worst case

Bottom line. Tree shape depends on order of insertion.