



<http://algs4.cs.princeton.edu>

3.3 RED-BLACK BST DEMO

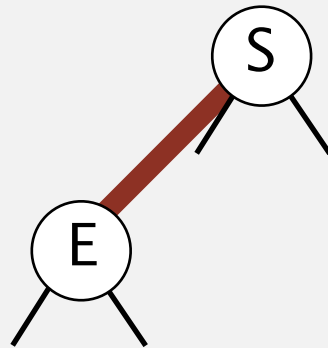
Red-black BST construction demo

insert S



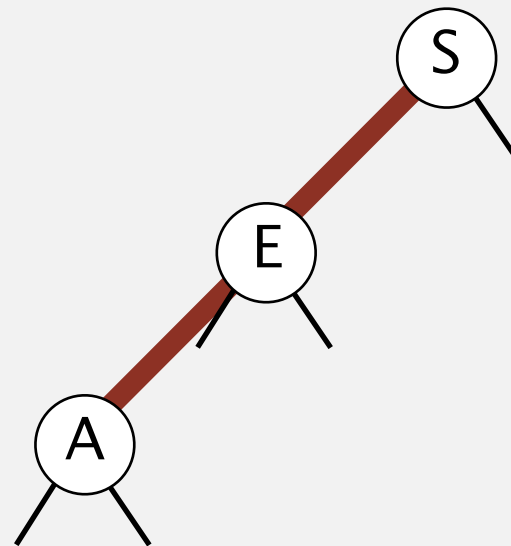
Red-black BST construction demo

insert E



Red-black BST construction demo

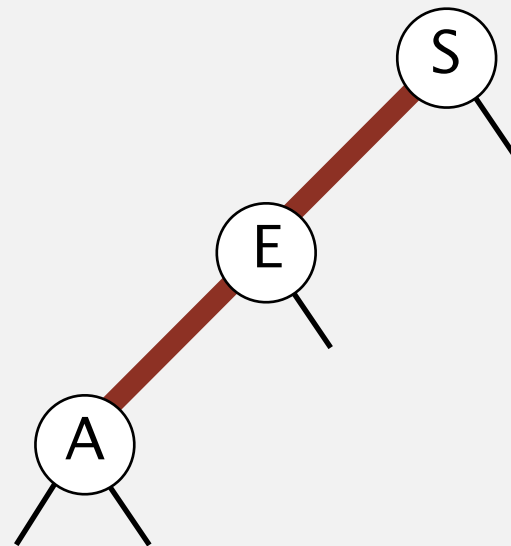
insert A



Red-black BST construction demo

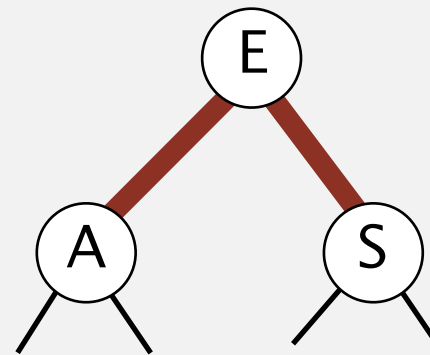
insert A

two left reds in a row
(rotate S right)



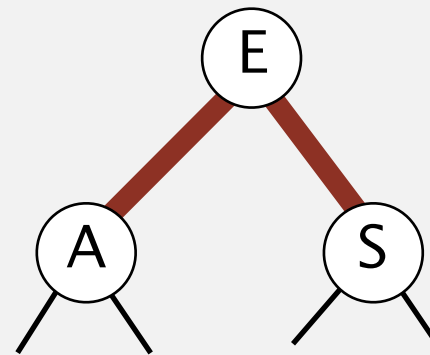
Red-black BST construction demo

both children red
(flip colors)



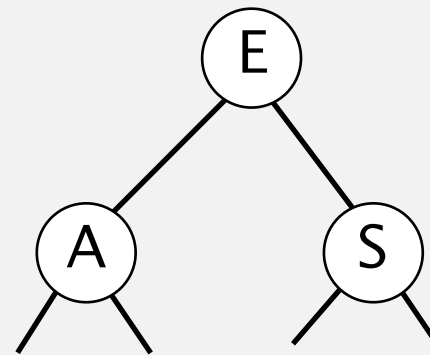
Red-black BST construction demo

both children red
(flip colors)



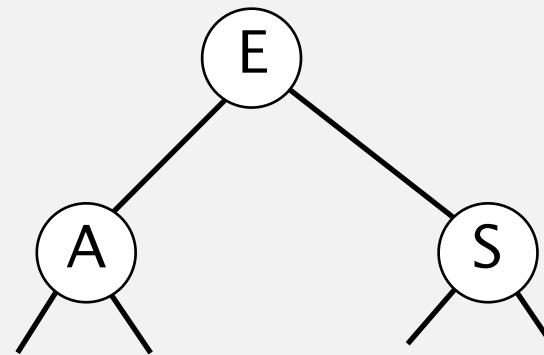
Red-black BST construction demo

red-black BST



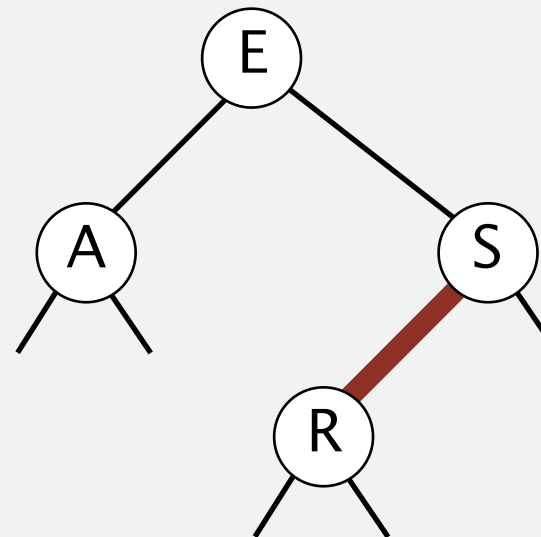
Red-black BST construction demo

red-black BST



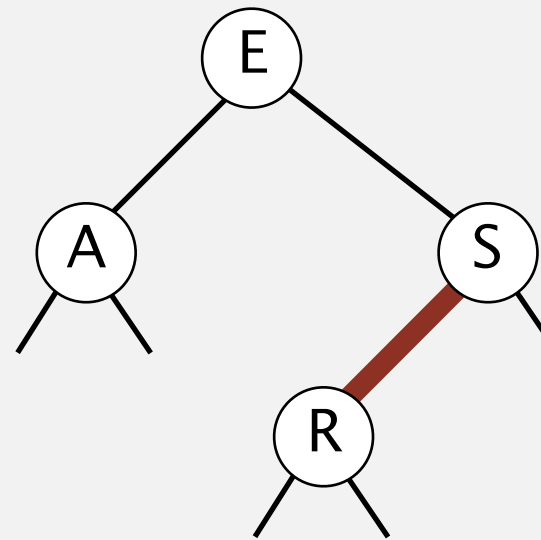
Red-black BST construction demo

insert R



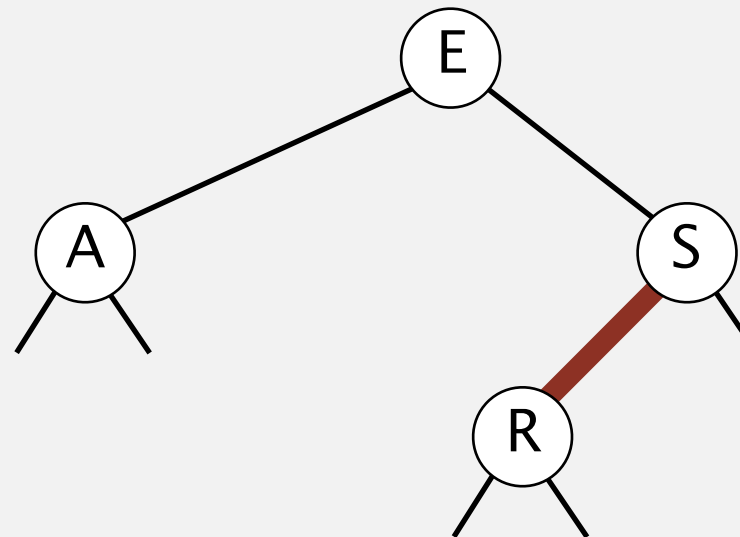
Red-black BST construction demo

red-black BST



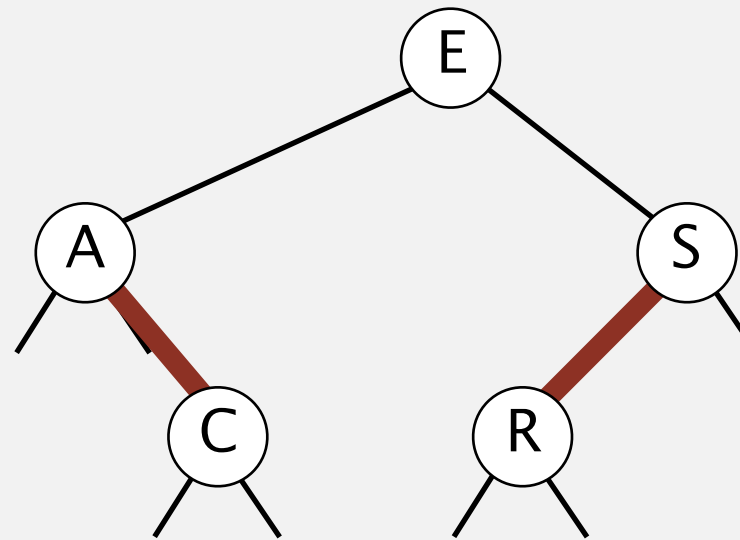
Red-black BST construction demo

red-black BST

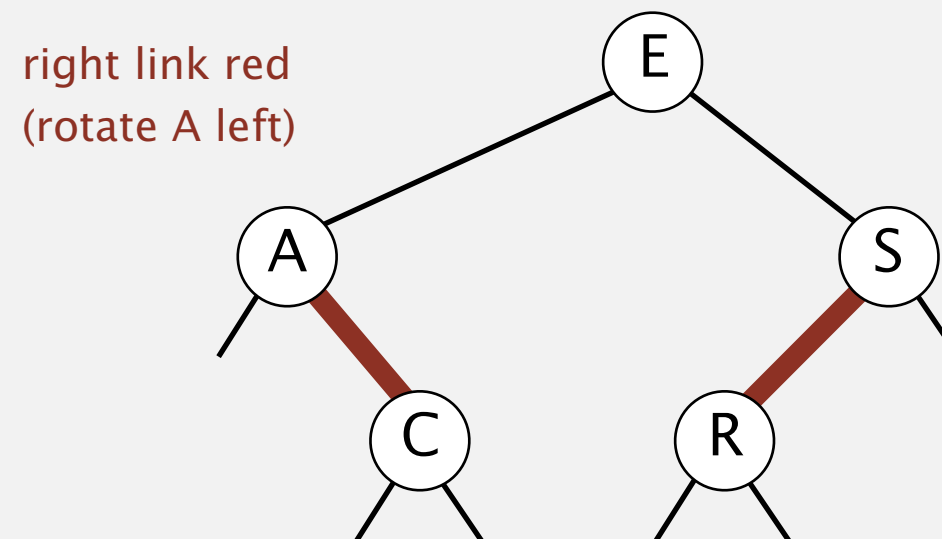


Red-black BST construction demo

insert C

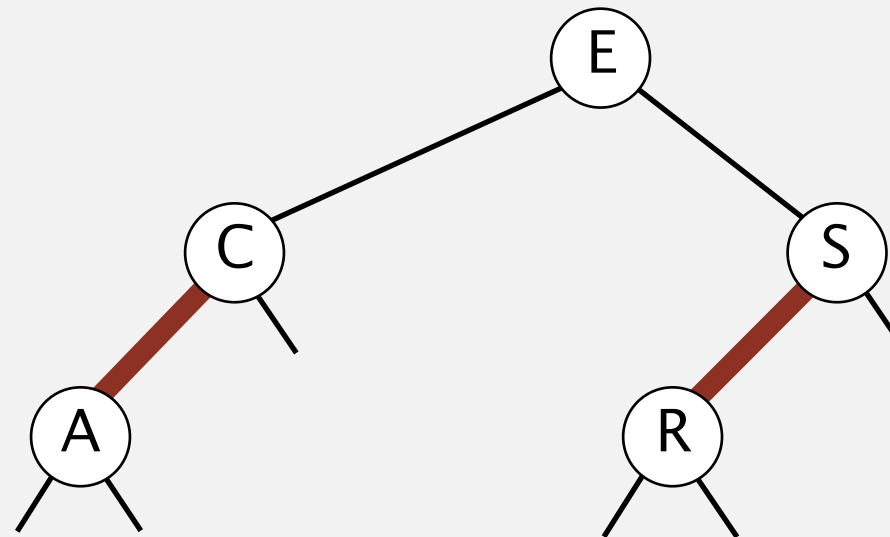


Red-black BST construction demo



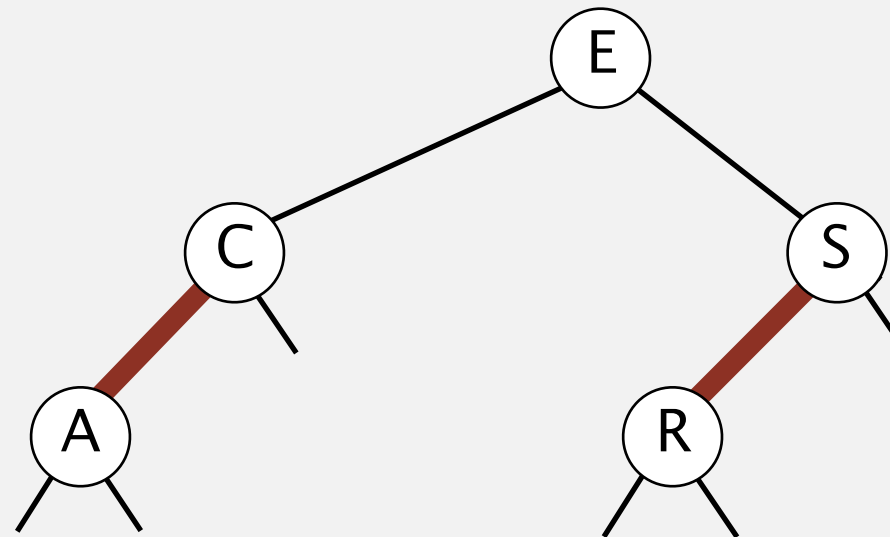
Red-black BST construction demo

red-black BST



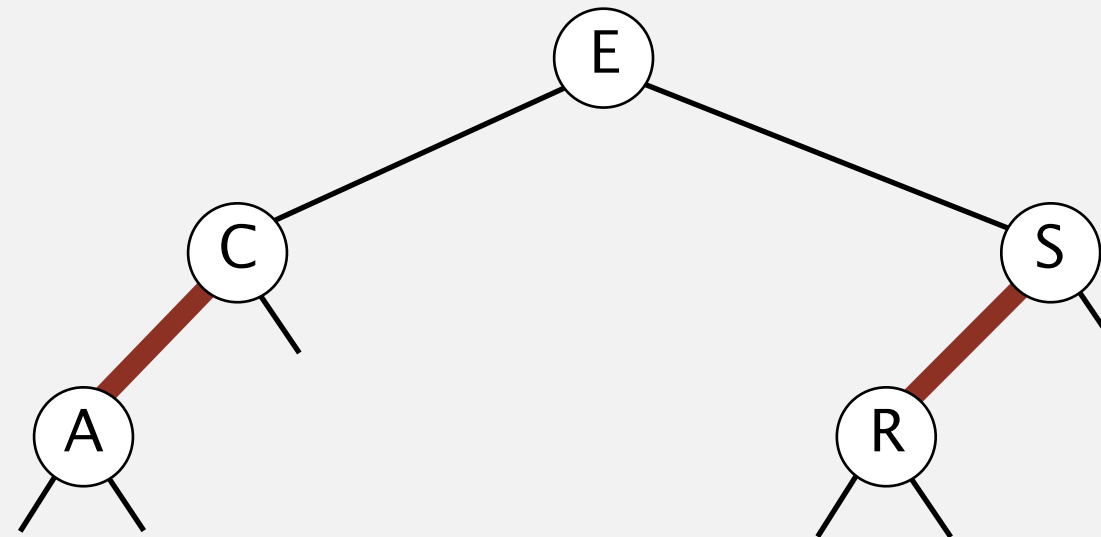
Red-black BST construction demo

red-black BST



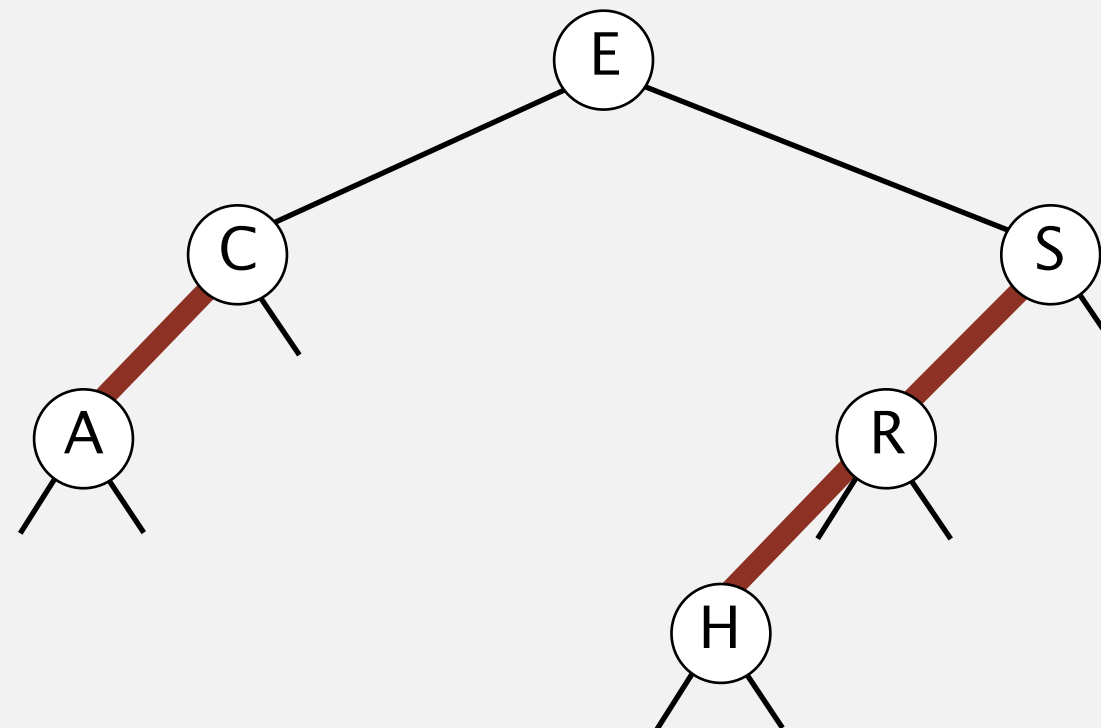
Red-black BST construction demo

red-black BST

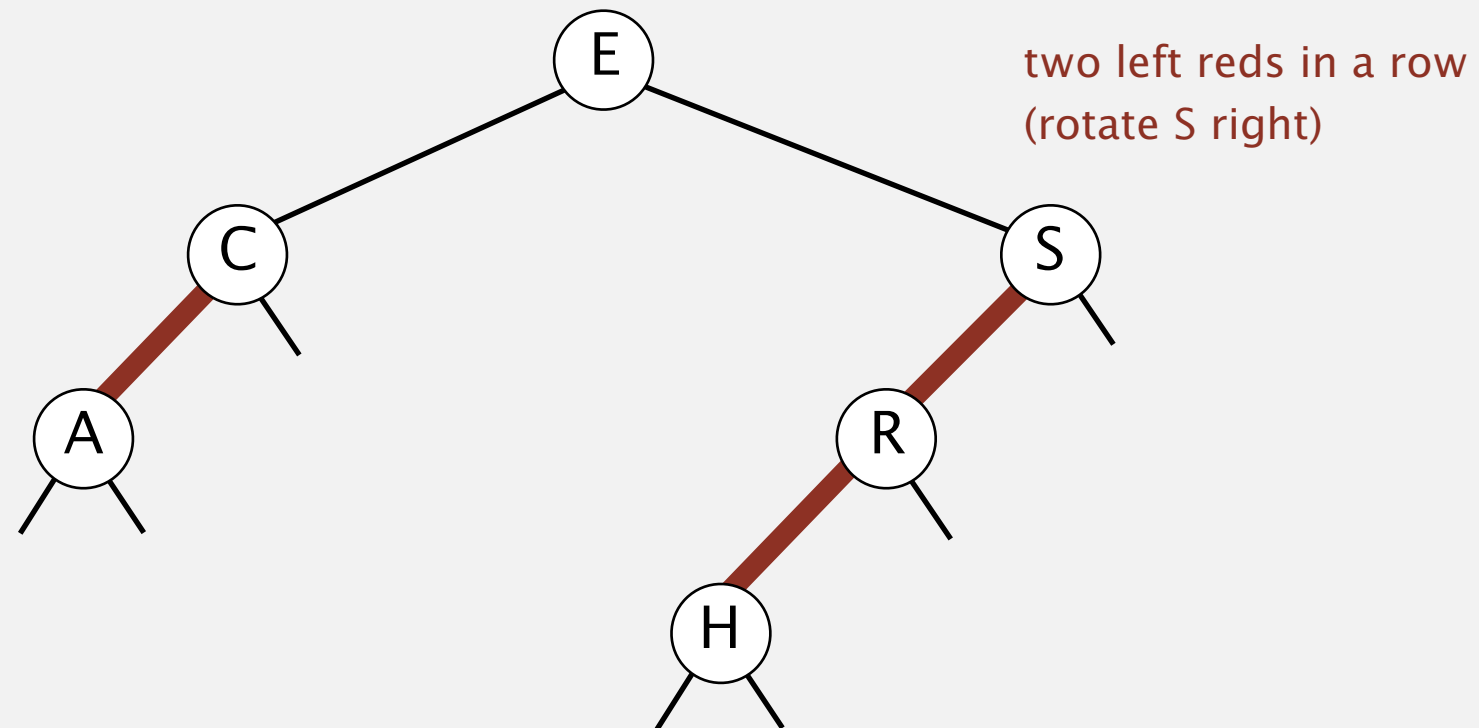


Red-black BST construction demo

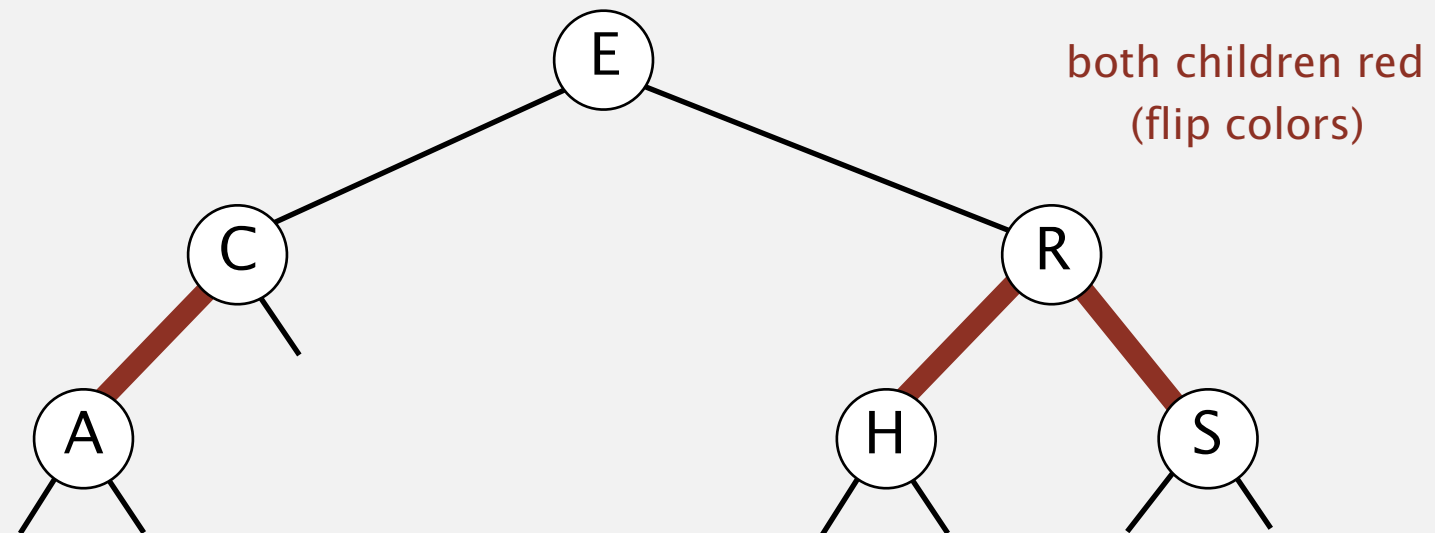
insert H



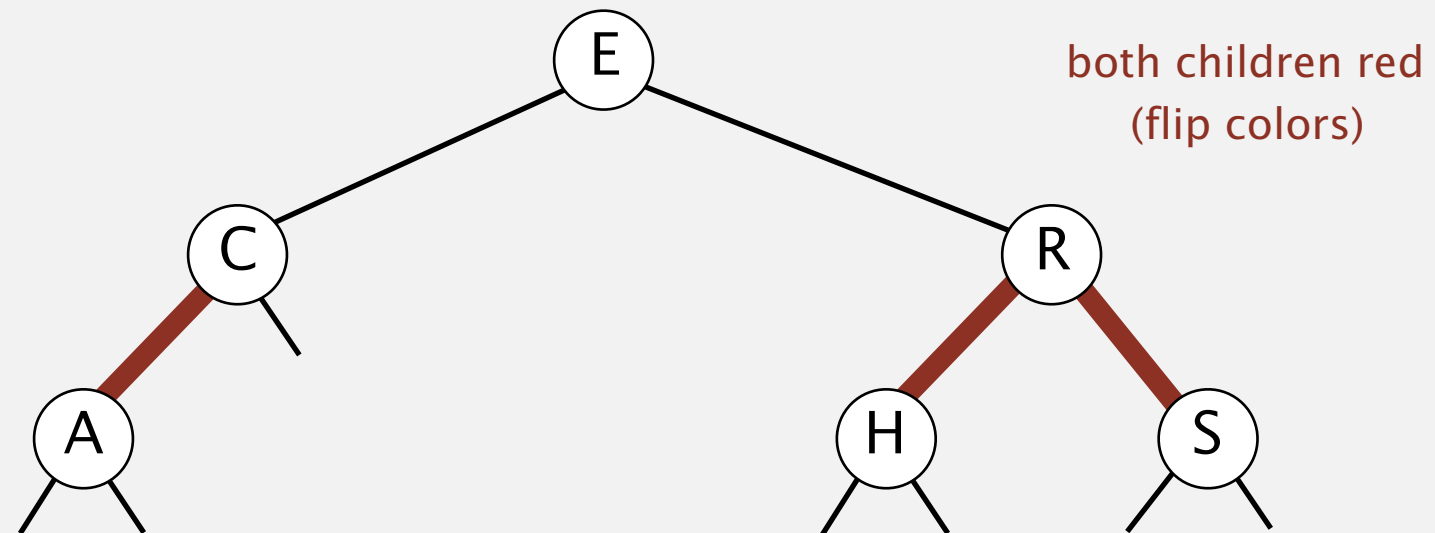
Red-black BST construction demo



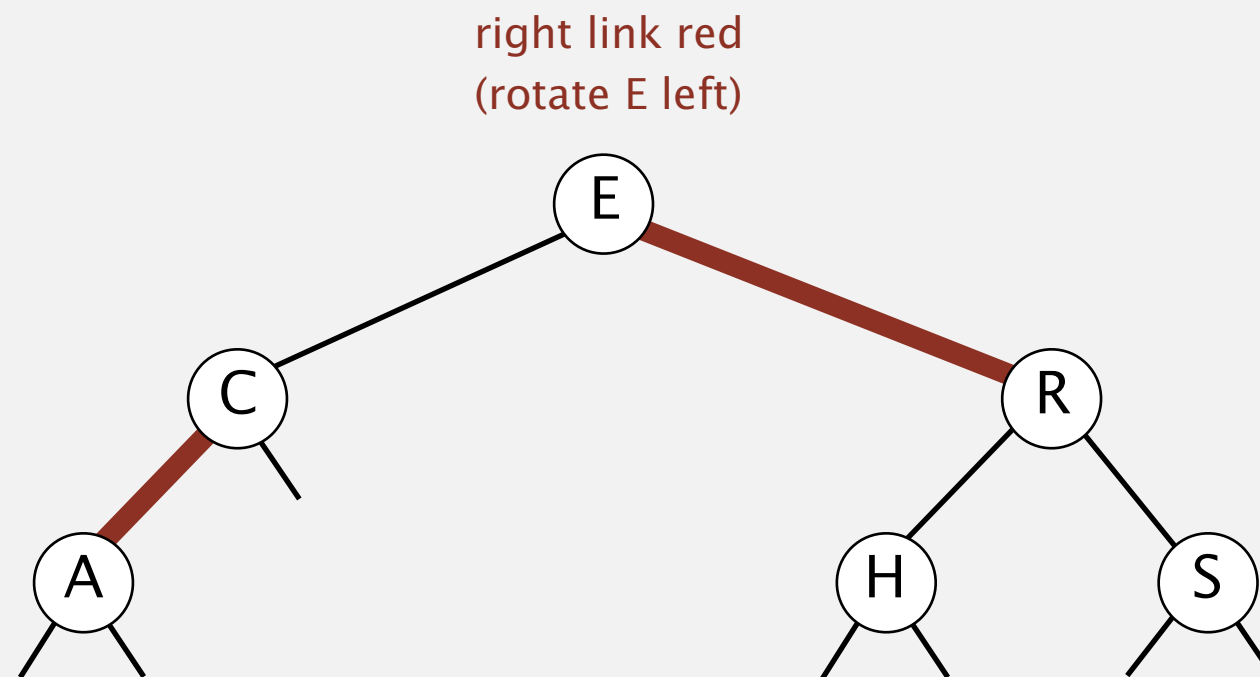
Red-black BST construction demo



Red-black BST construction demo

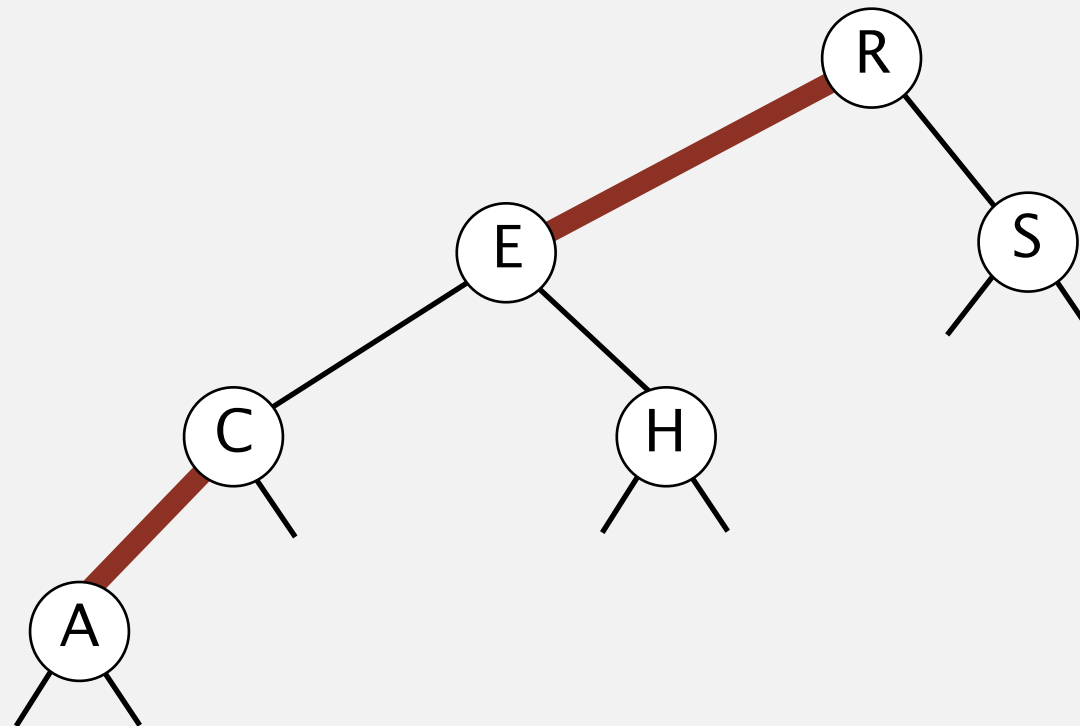


Red-black BST construction demo



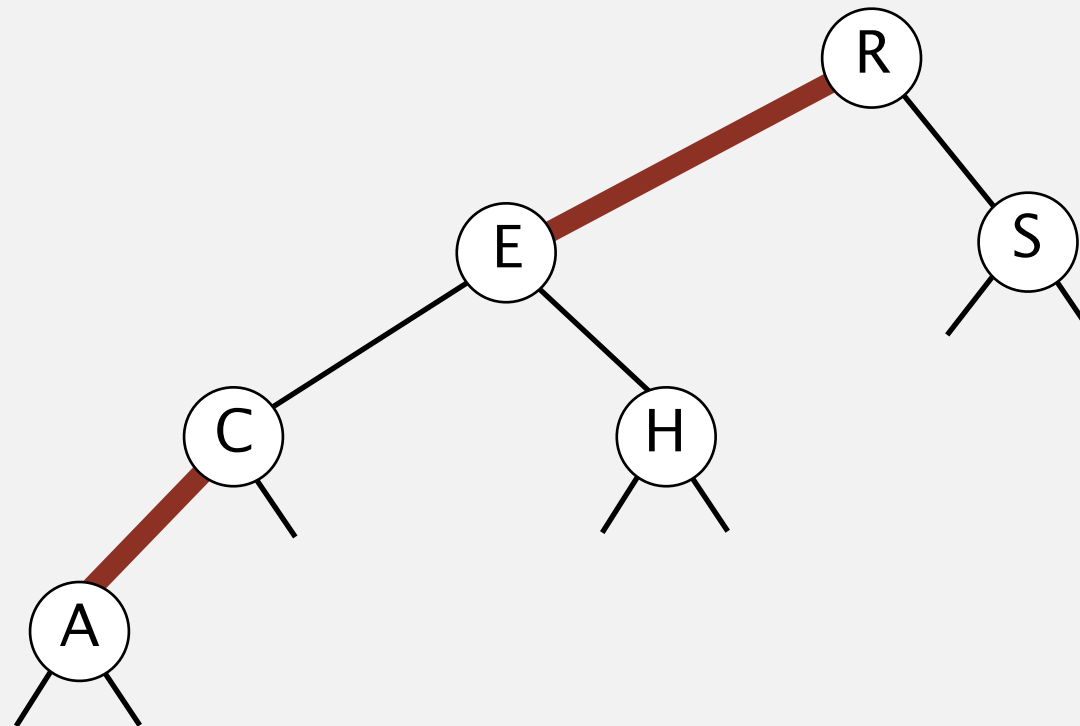
Red-black BST construction demo

red-black BST



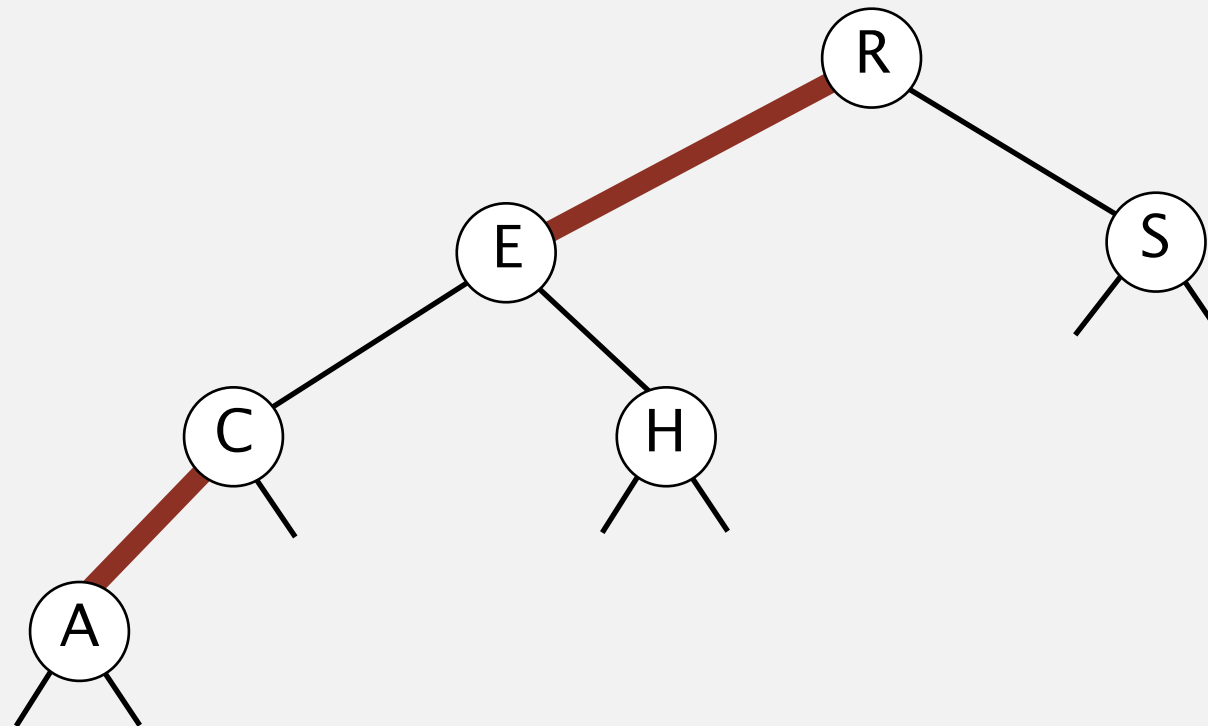
Red-black BST construction demo

red-black BST



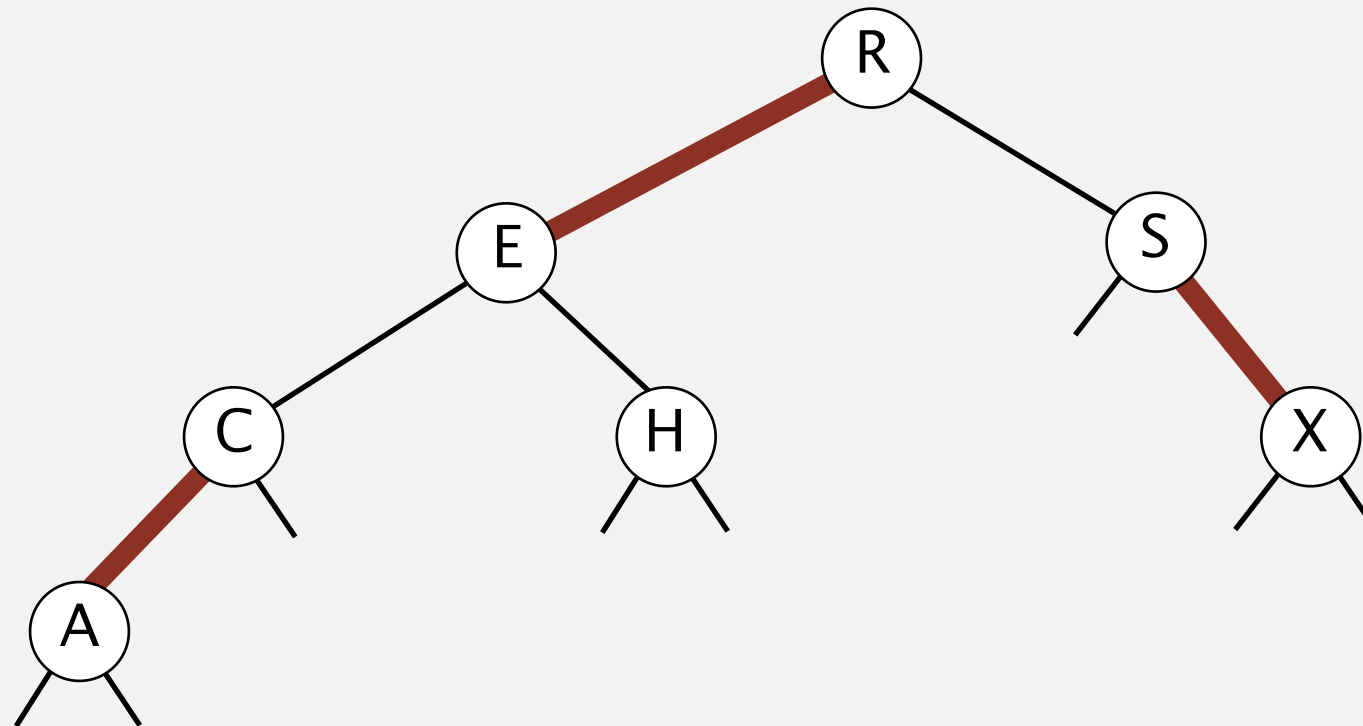
Red-black BST construction demo

red-black BST



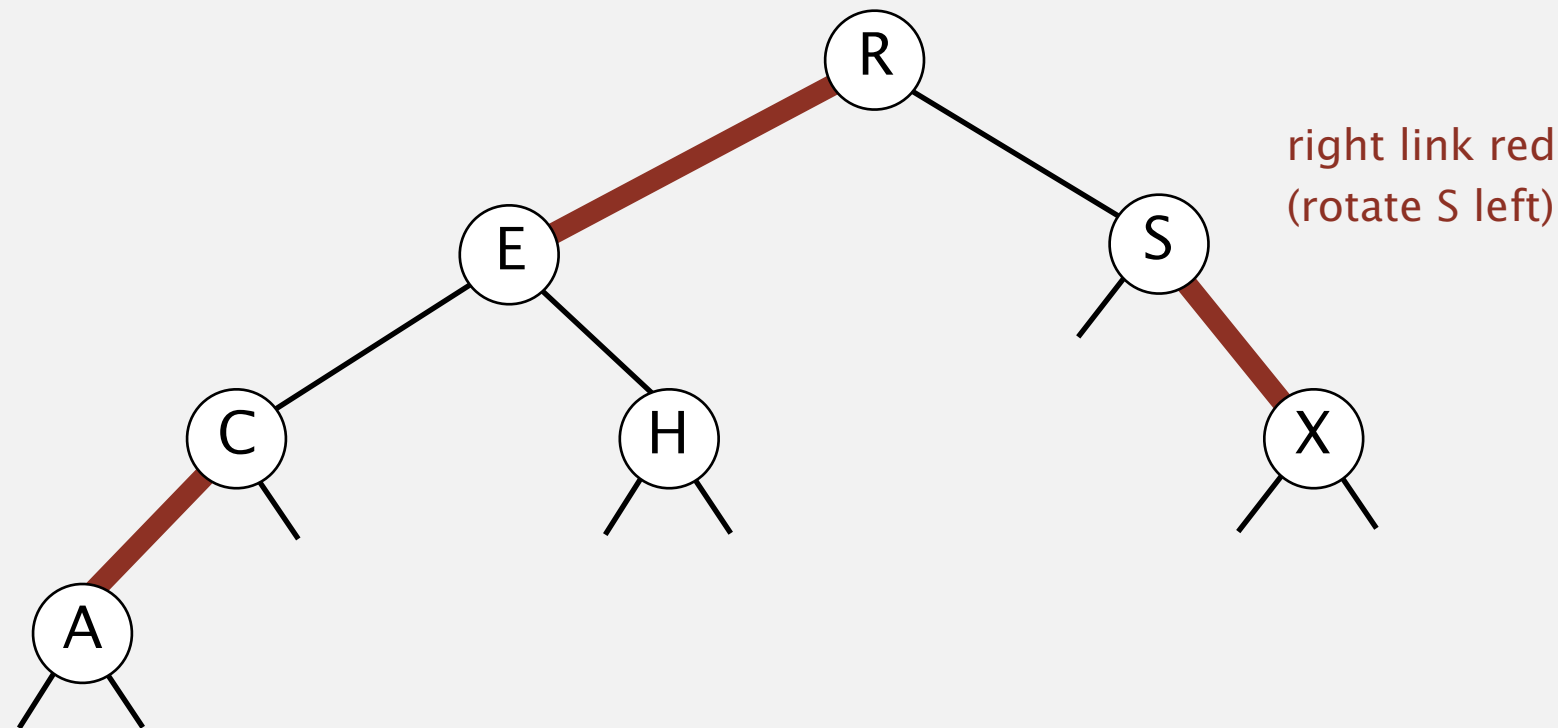
Red-black BST construction demo

insert X



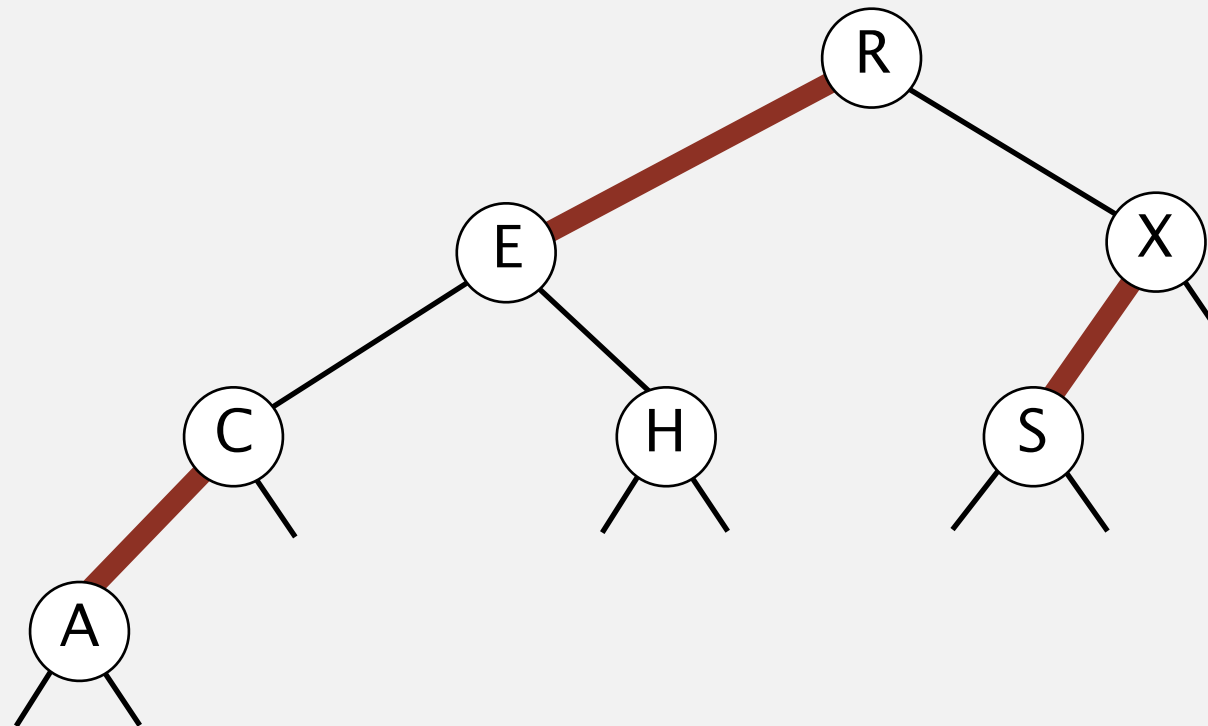
Red-black BST construction demo

insert X



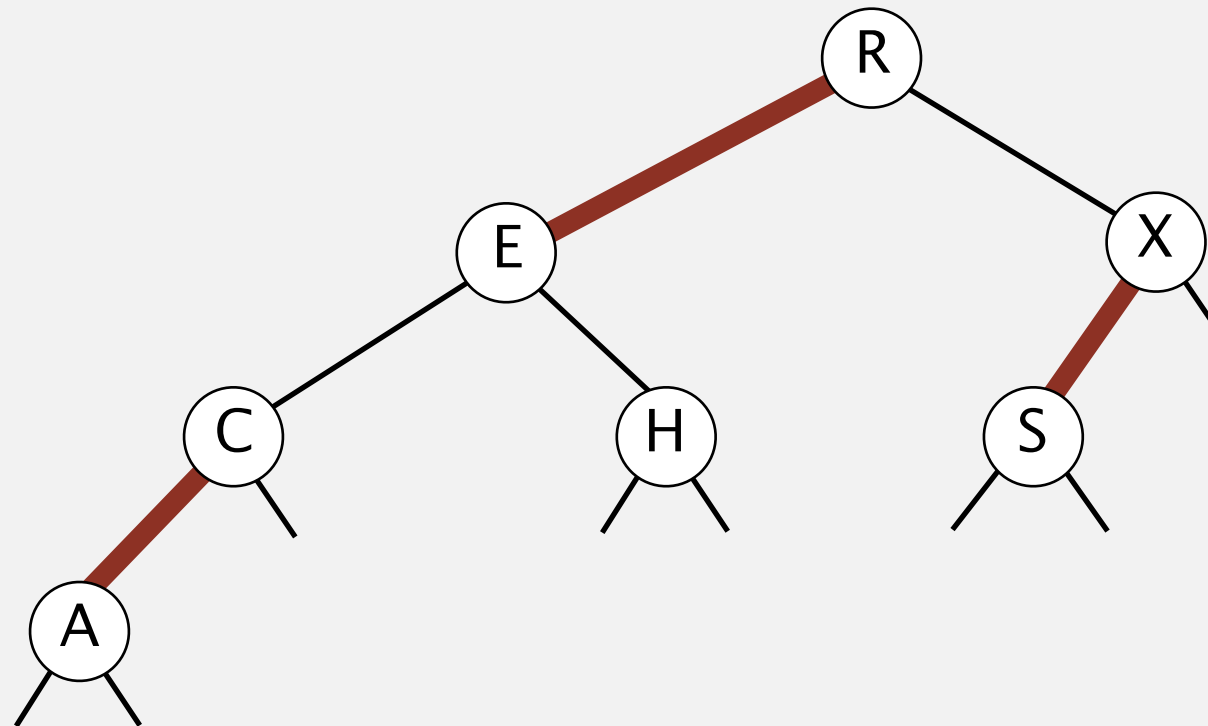
Red-black BST construction demo

red-black BST



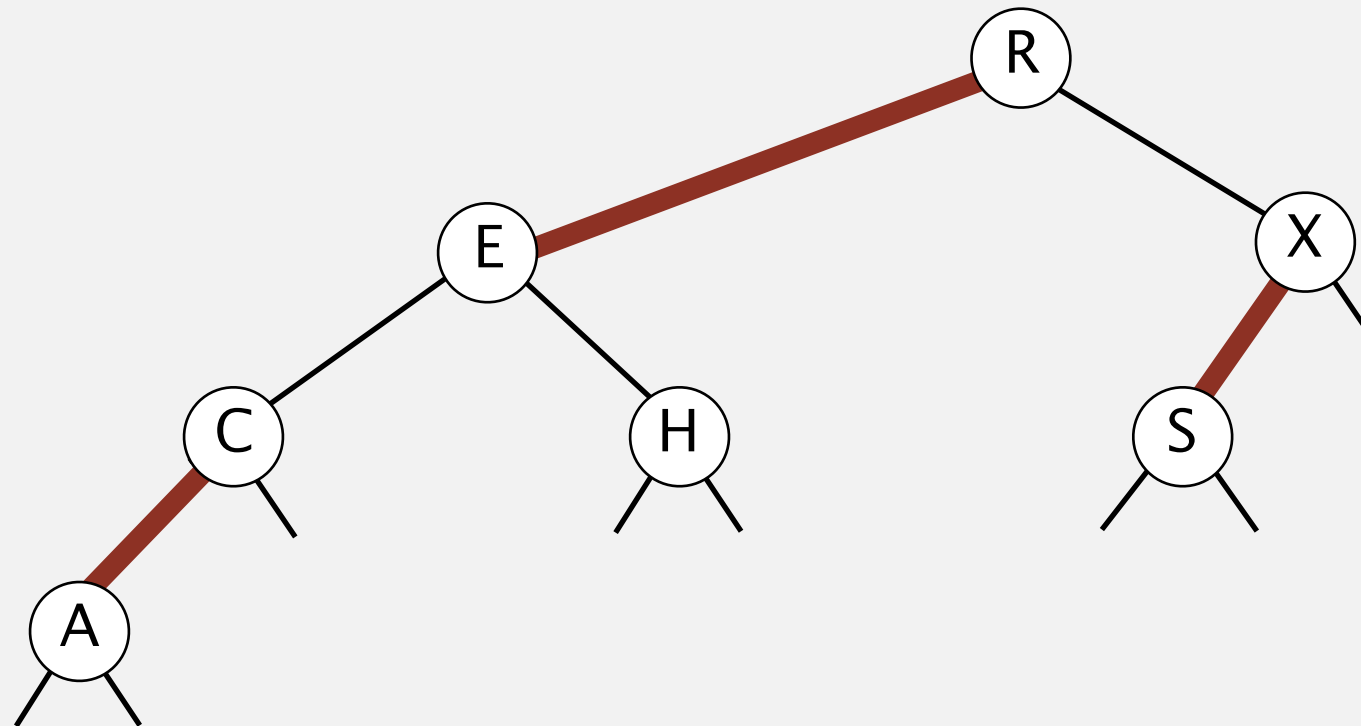
Red-black BST construction demo

red-black BST



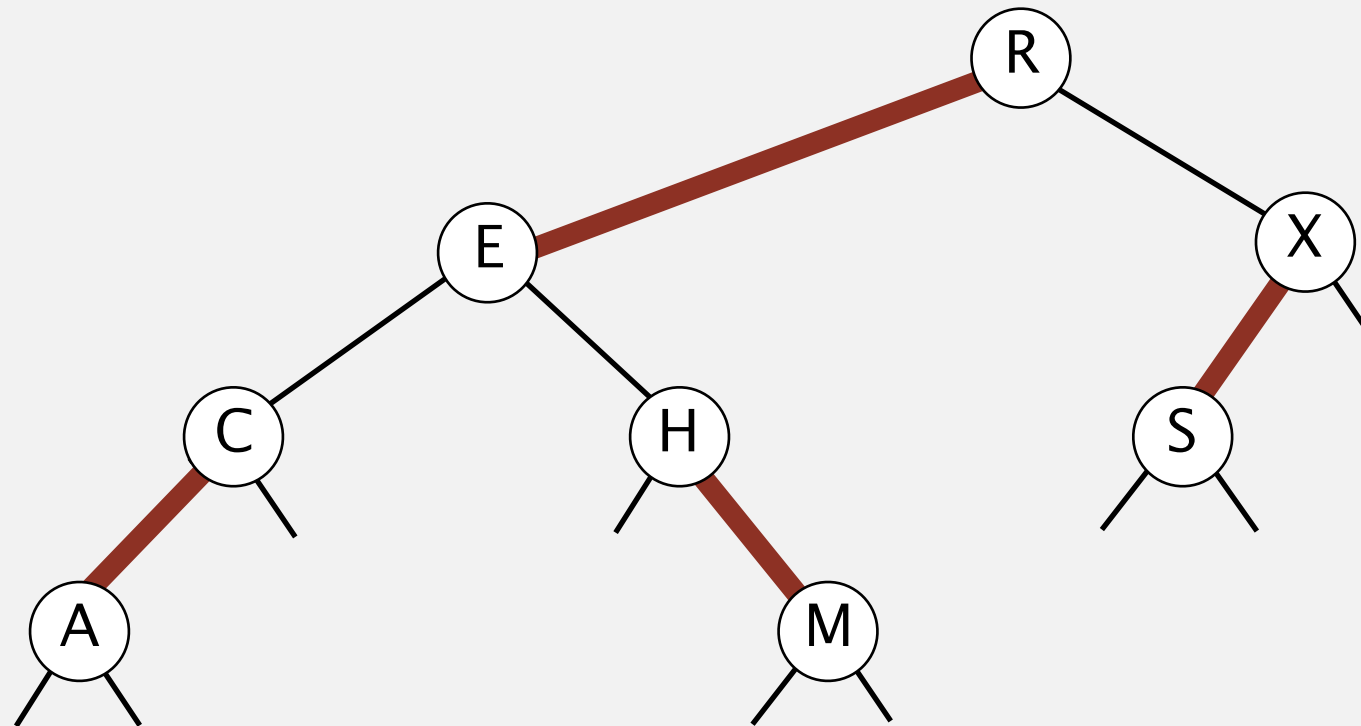
Red-black BST construction demo

red-black BST



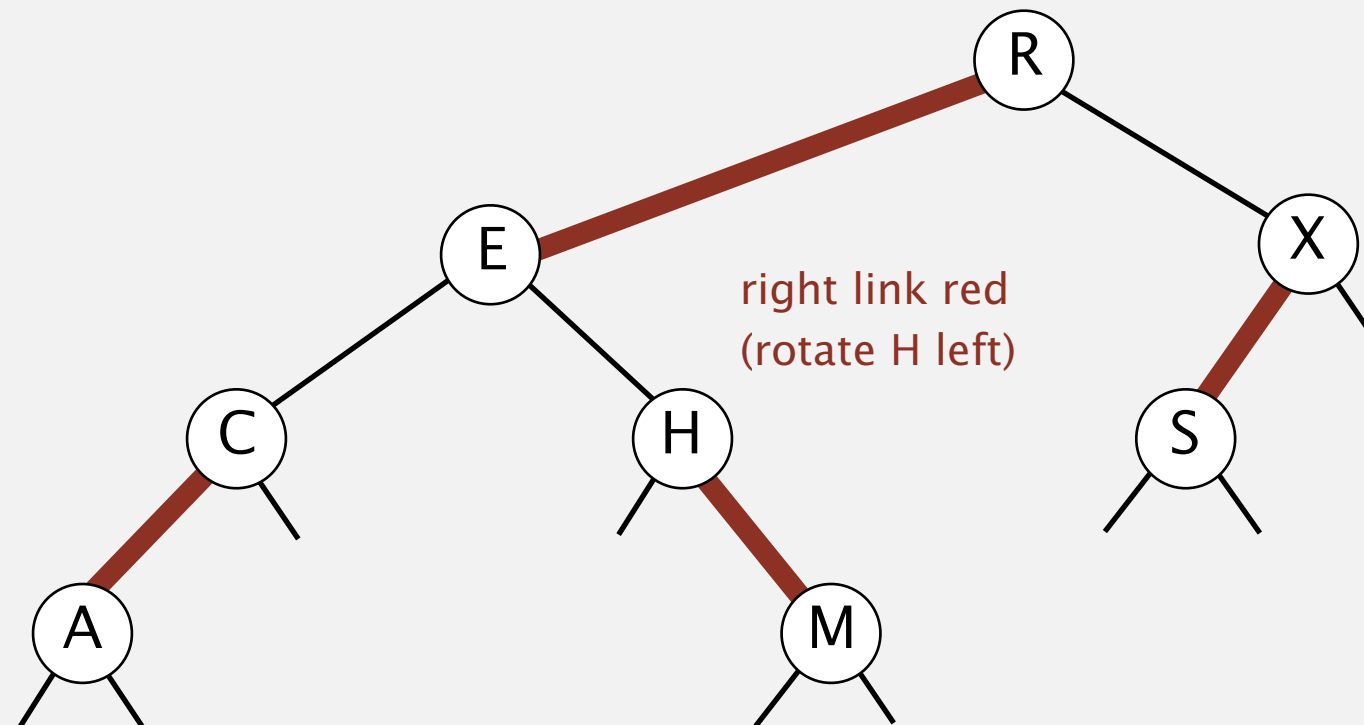
Red-black BST construction demo

insert M



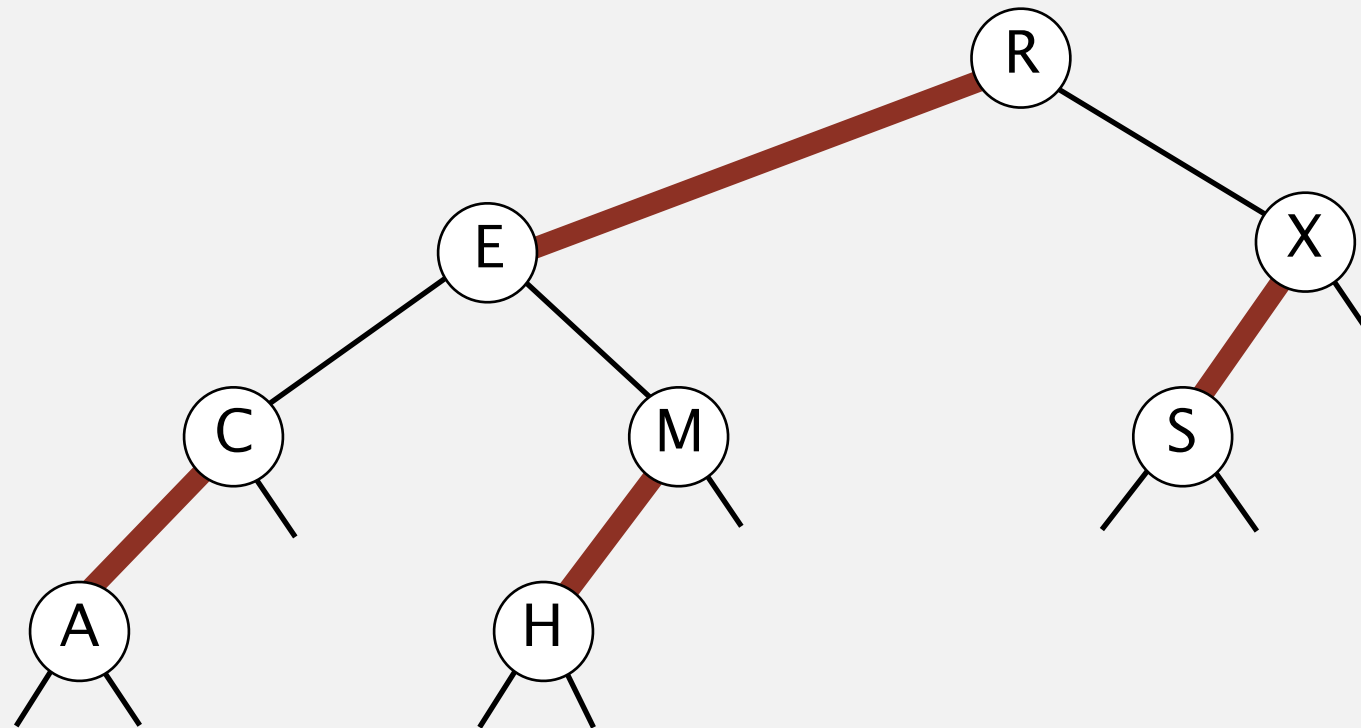
Red-black BST construction demo

insert M



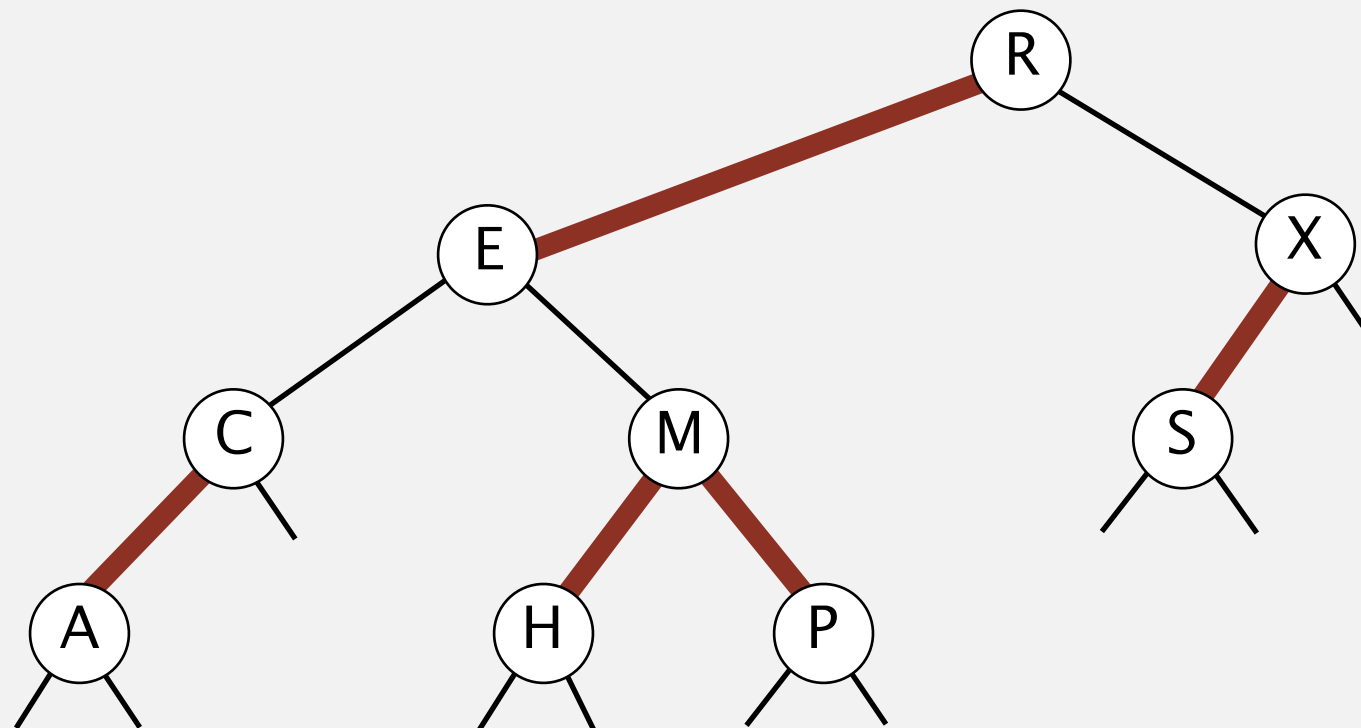
Red-black BST construction demo

red-black BST



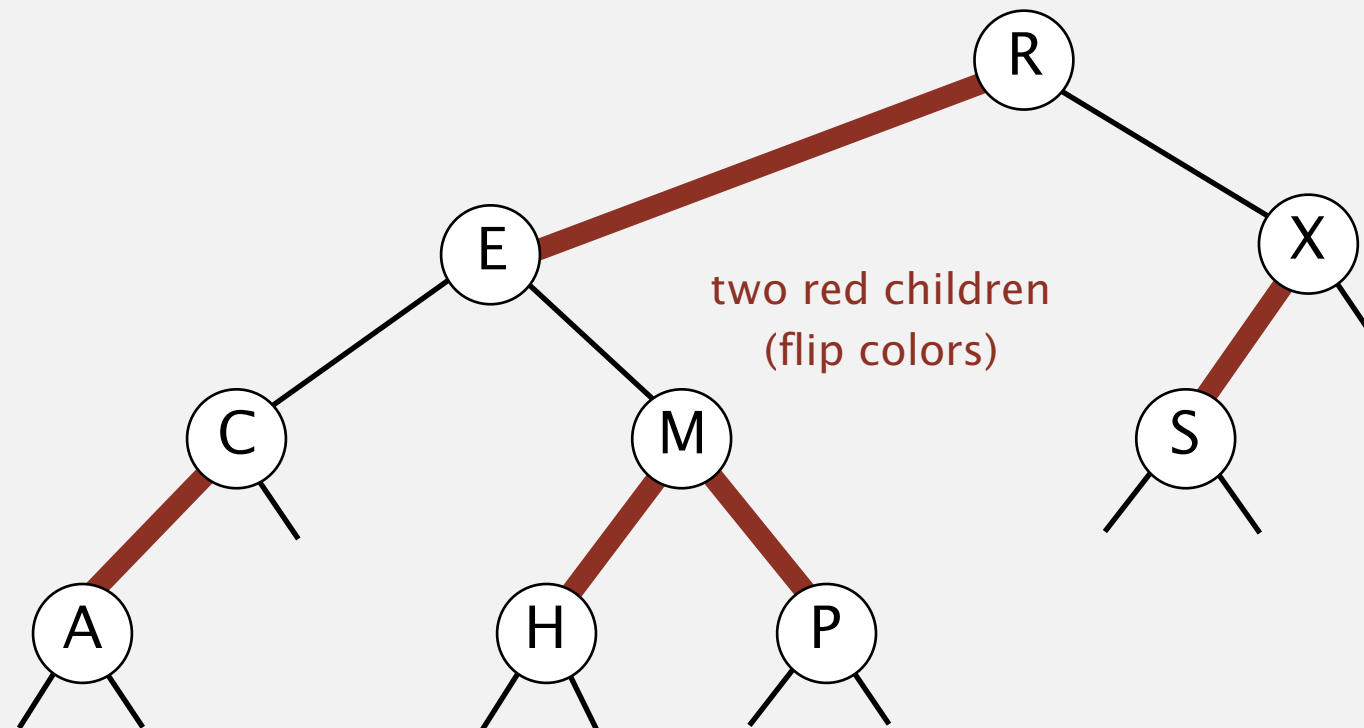
Red-black BST construction demo

insert P



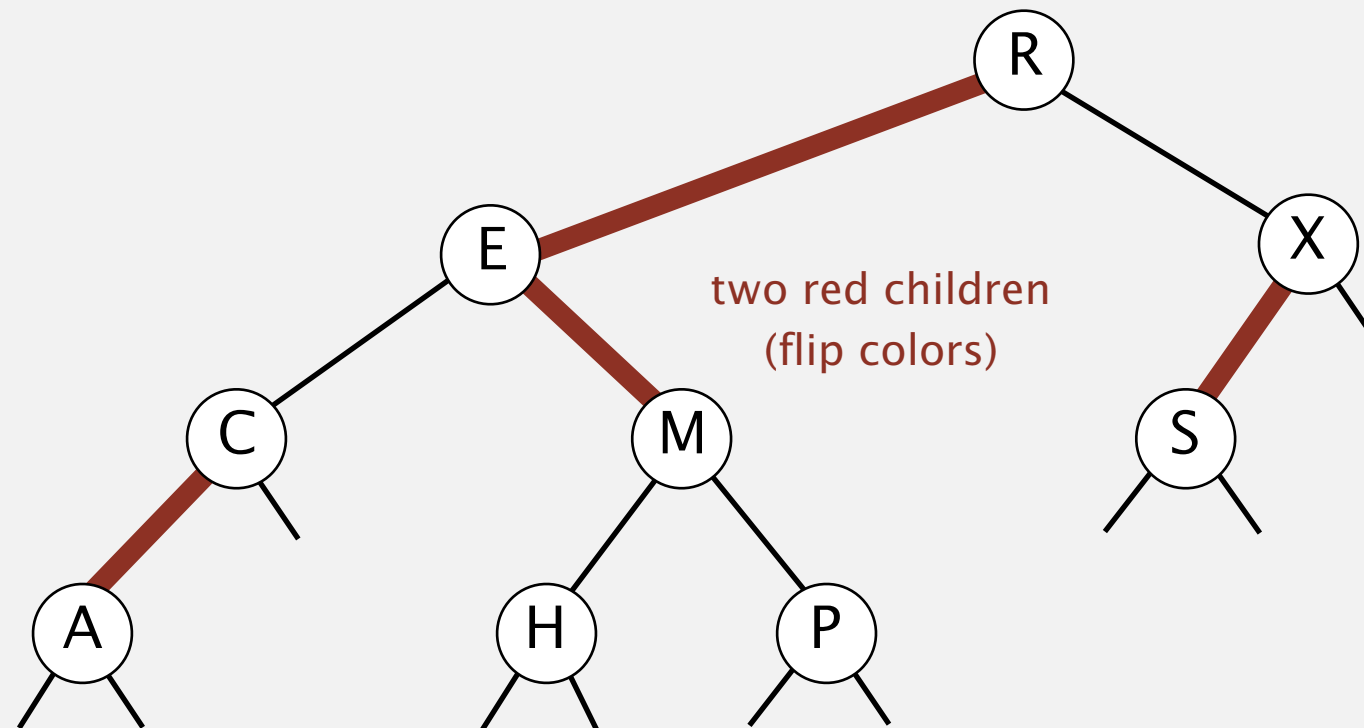
Red-black BST construction demo

insert P

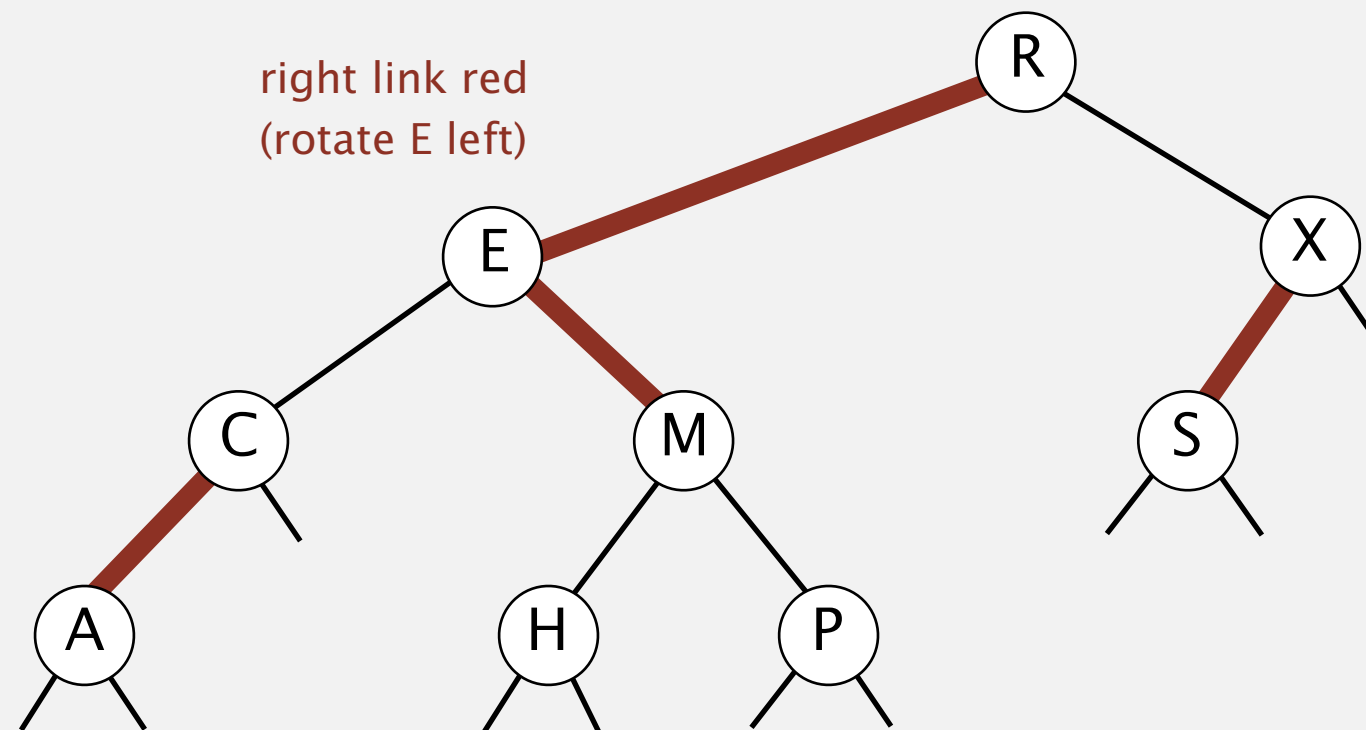


Red-black BST construction demo

insert P

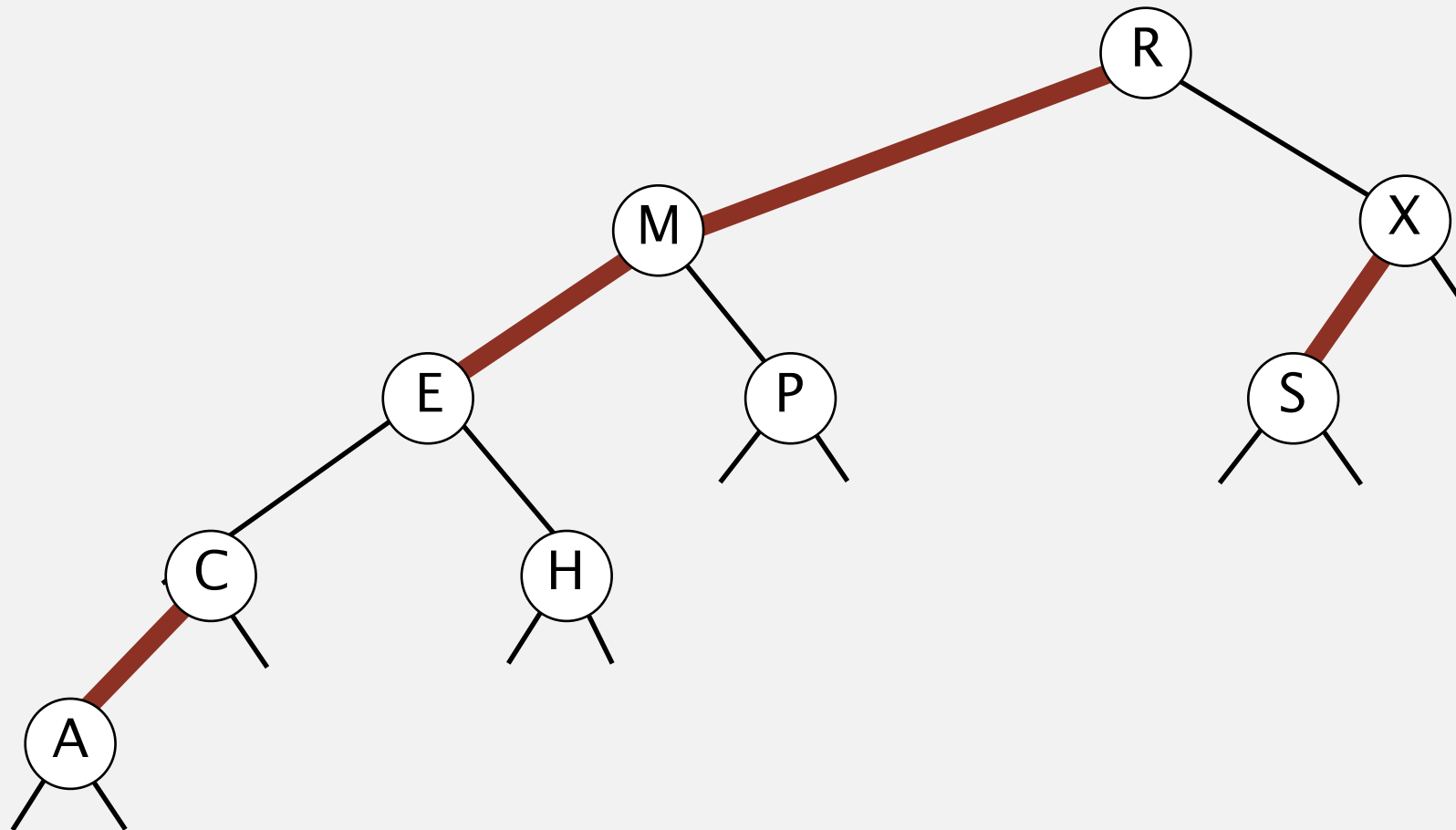


Red-black BST construction demo

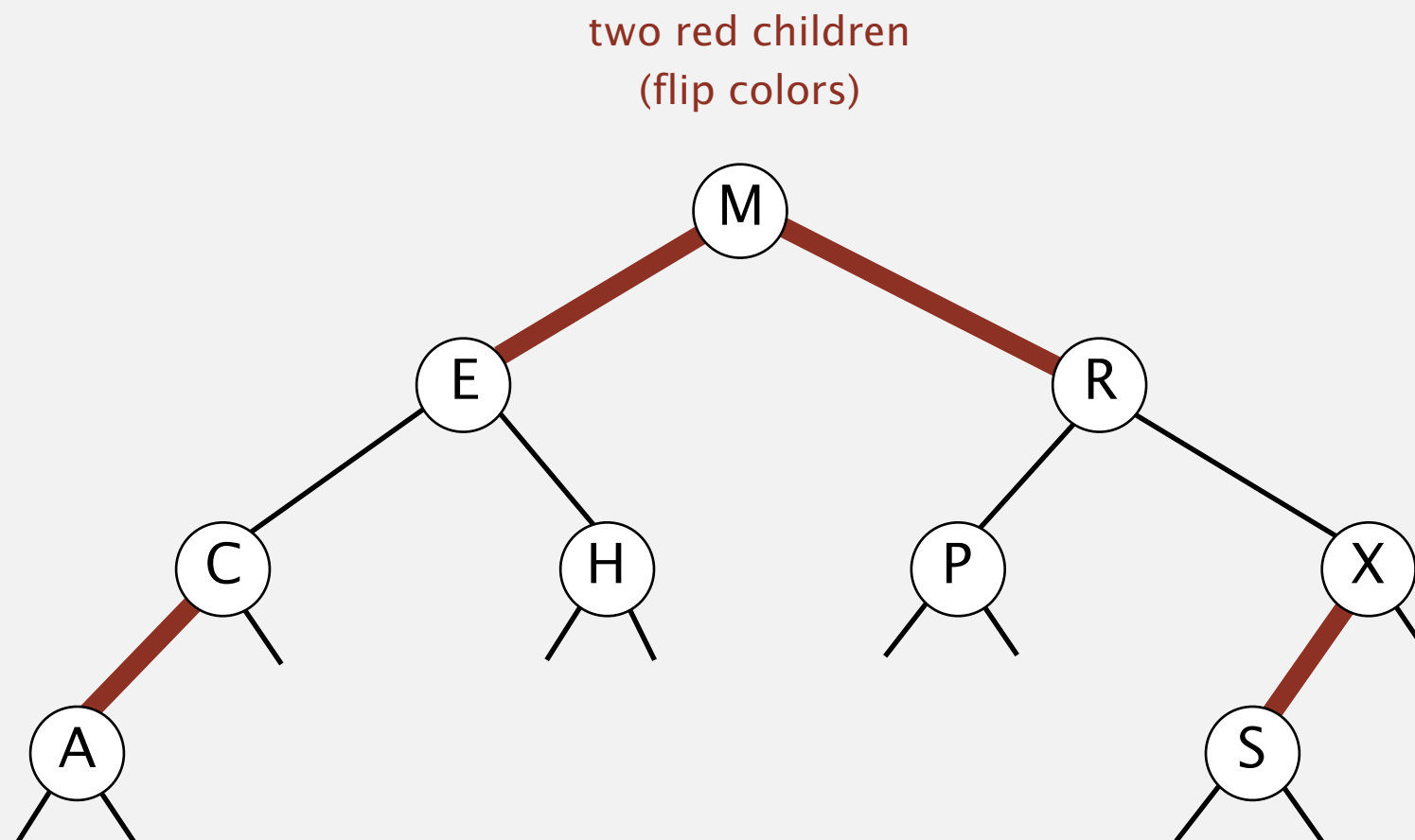


Red-black BST construction demo

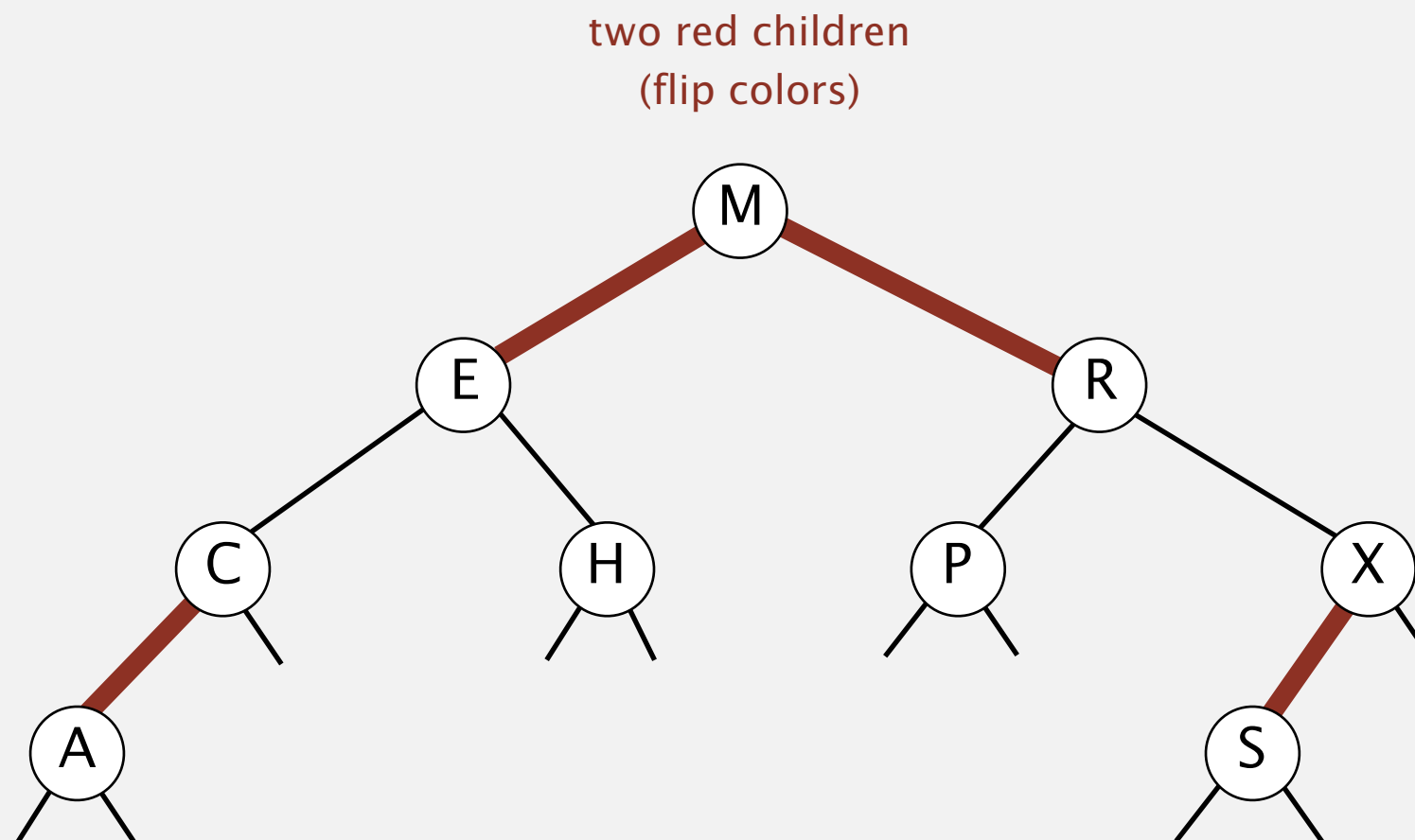
two left reds in a row
(rotate R right)



Red-black BST construction demo

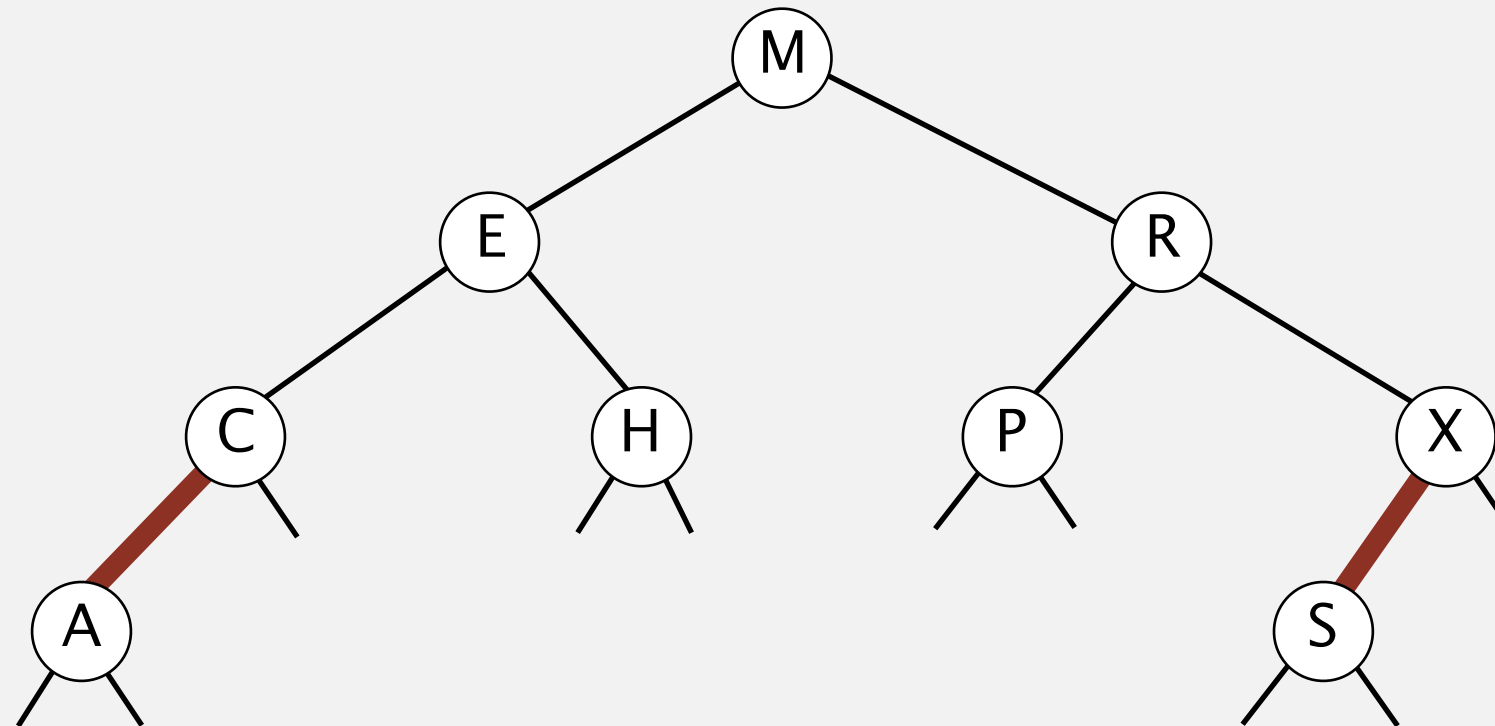


Red-black BST construction demo



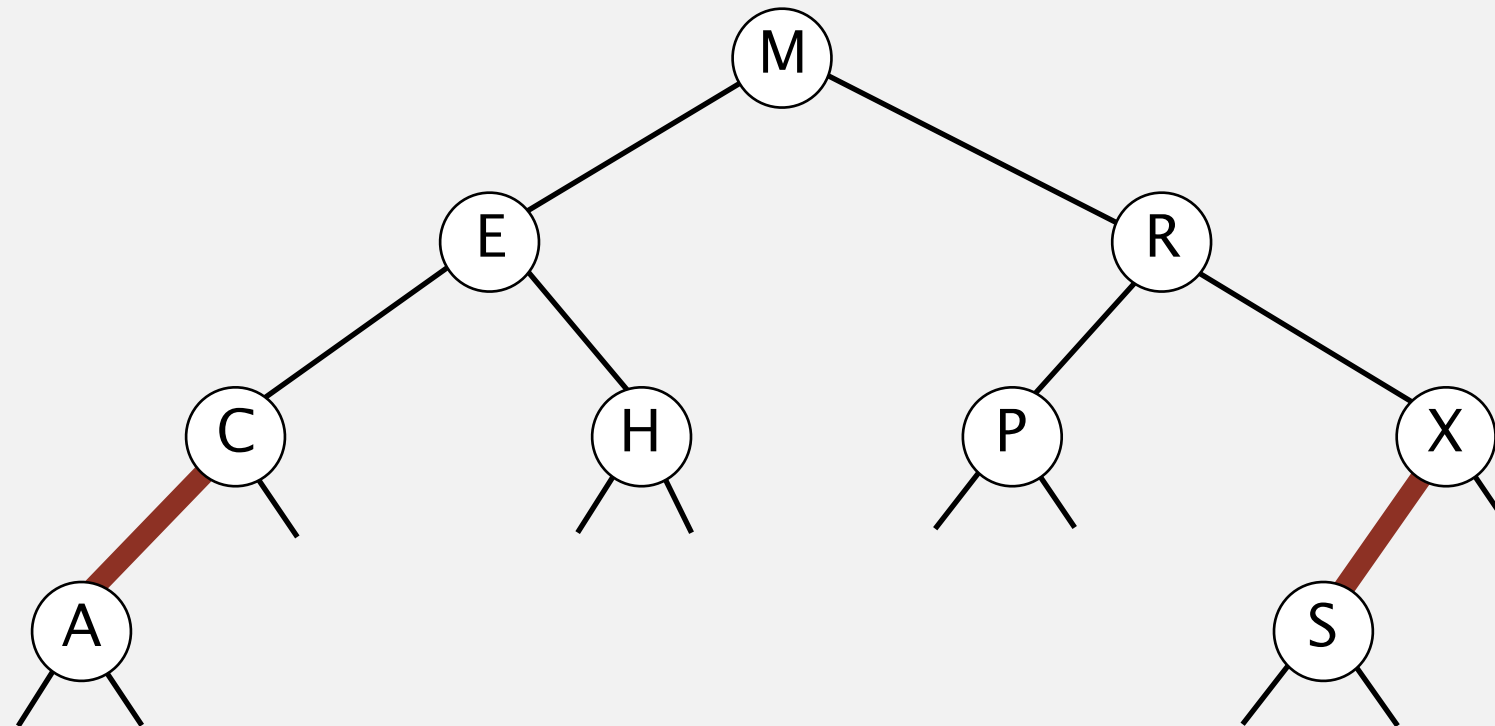
Red-black BST construction demo

red-black BST



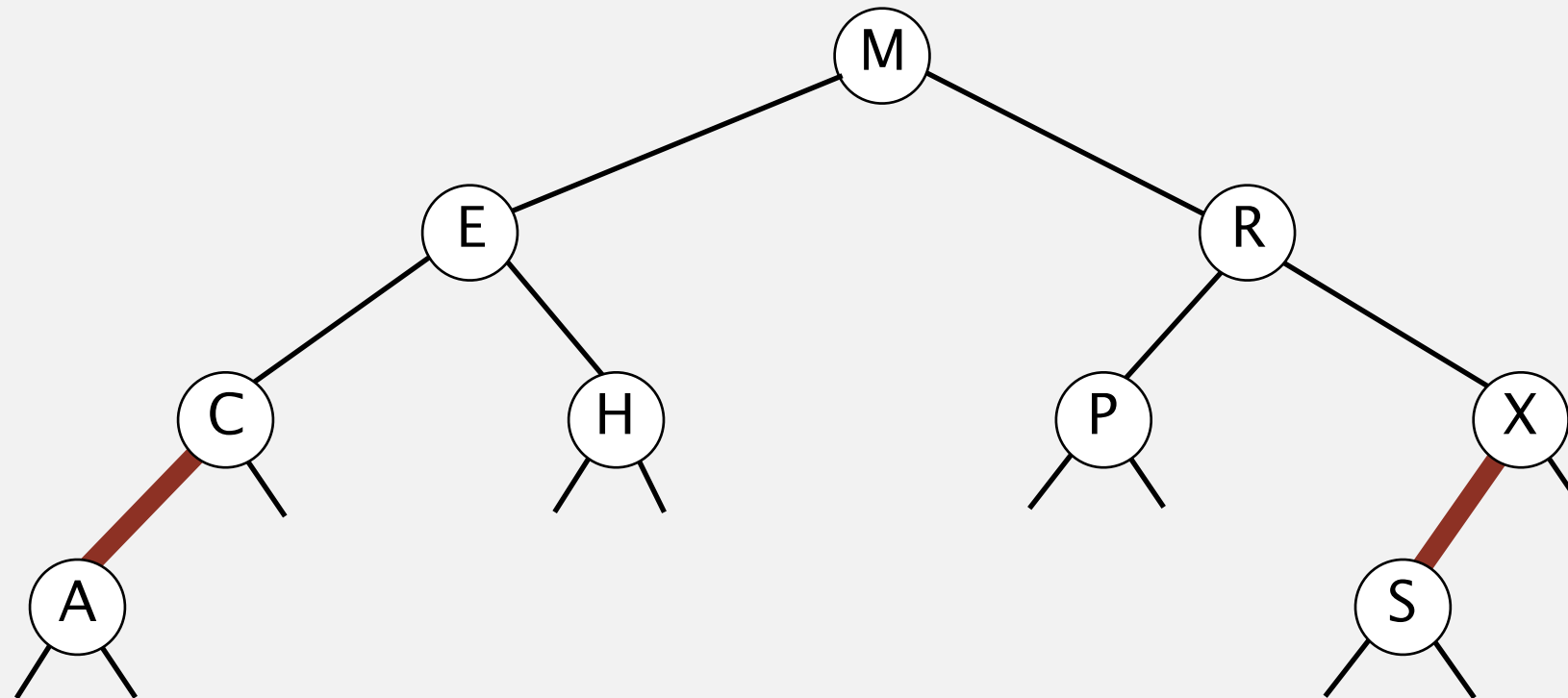
Red-black BST construction demo

red-black BST



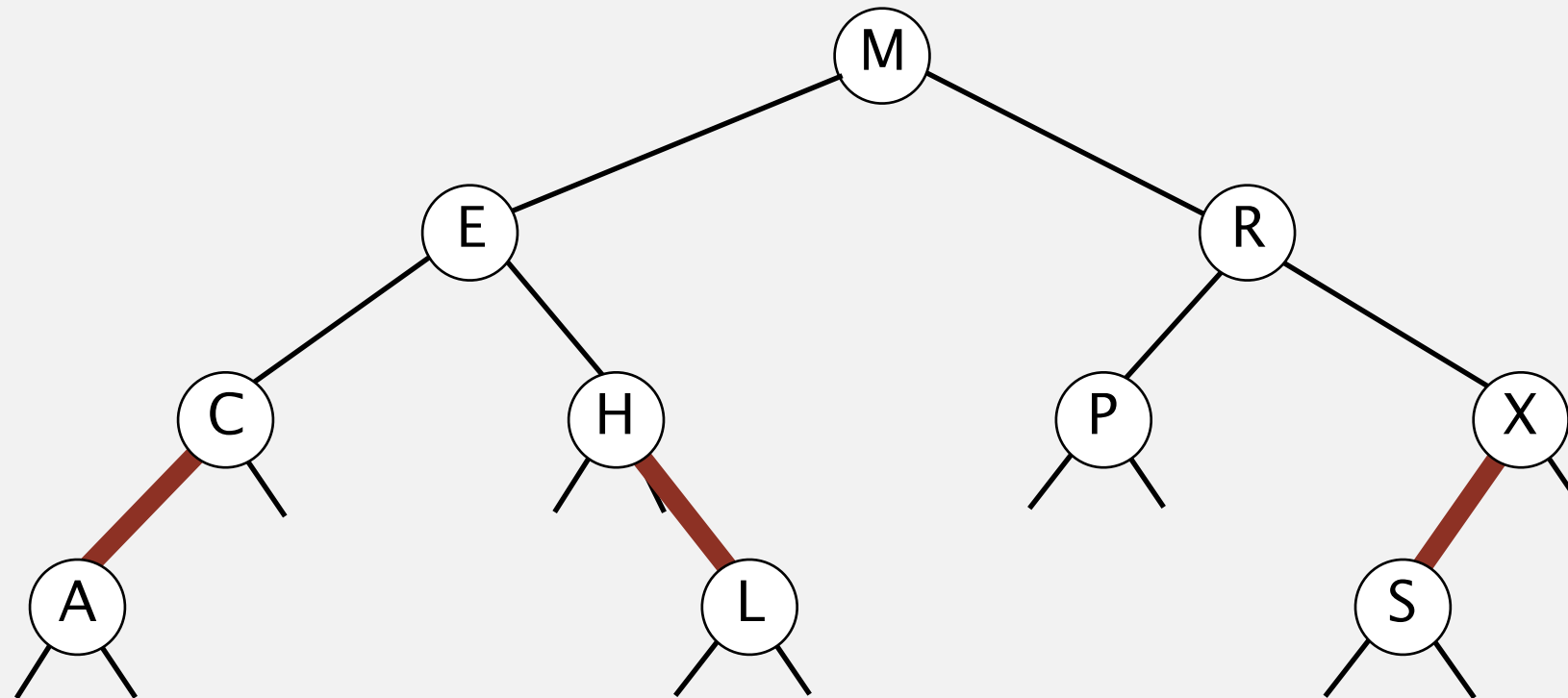
Red-black BST construction demo

red-black BST



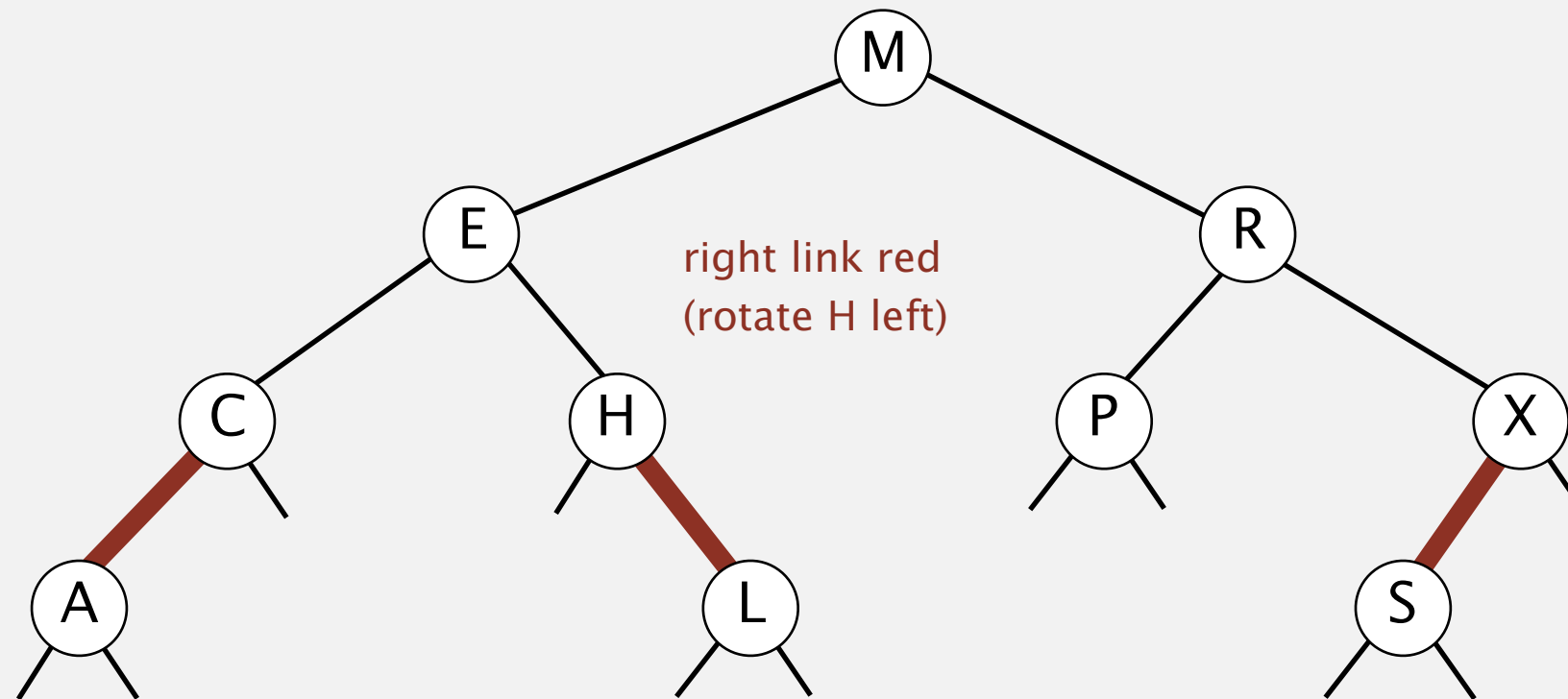
Red-black BST construction demo

insert L



Red-black BST construction demo

insert L



Red-black BST construction demo

red-black BST

