

CS 260 – Homework #6

Chris Kasper

February 16, 2018

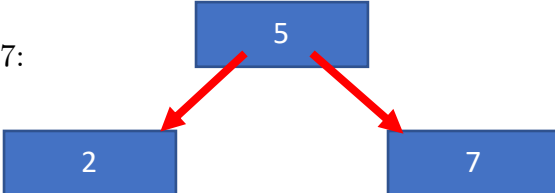
Problem 1 (5.7 from text)

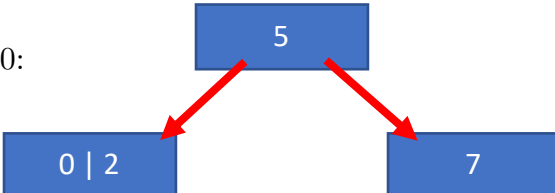
Show the 2-3 tree that results if we insert into an empty set, represented as a 2-3 tree, the elements 5, 2, 7, 0, 3, 4, 6, 1, 8, 9.

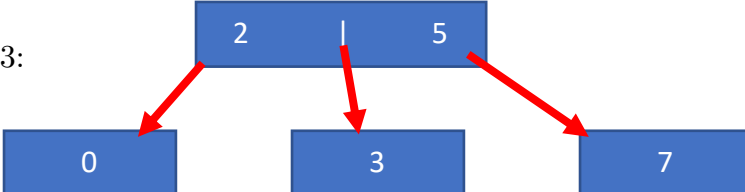
Solution

Insert 5: 

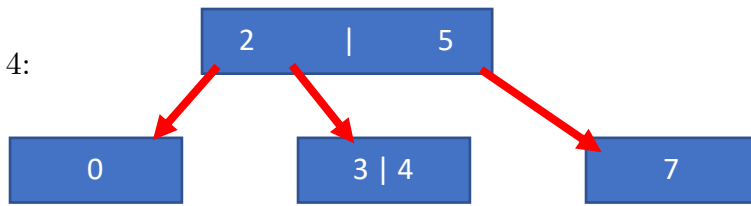
Insert 2: 

Insert 7: 

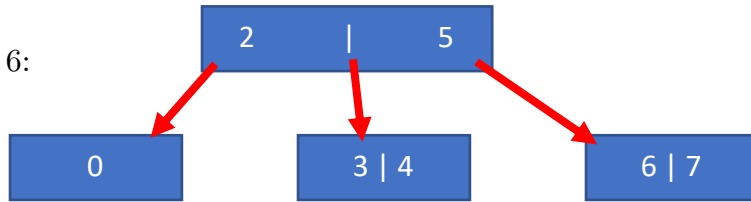
Insert 0: 

Insert 3: 

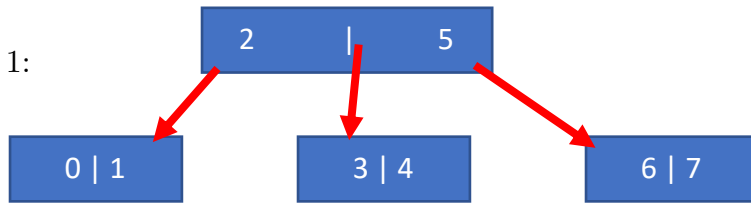
Insert 4:



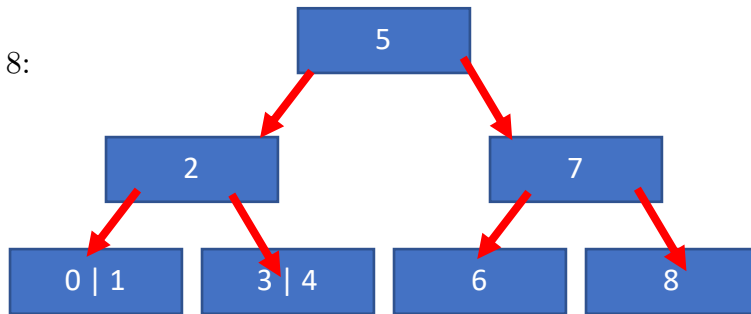
Insert 6:



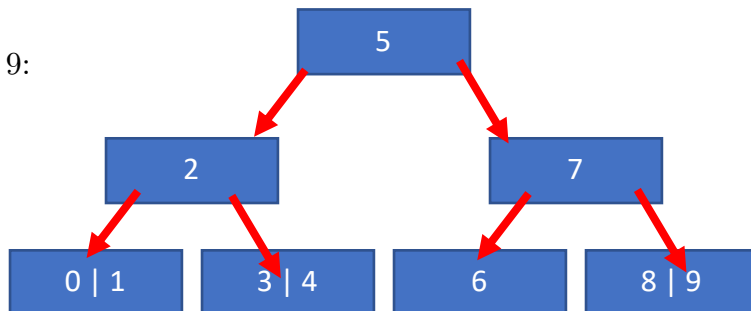
Insert 1:



Insert 8:



Insert 9:



Done.

Problem 2 (5.8 from text)

Show the result of deleting 3 from the 2-3 tree that results from Exercise 5.7

Solution

