

M = 5
 Insert 3

3

Insert 21

3 21

Insert 9

3 9 21

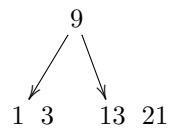
Insert 1

1 3 9 21

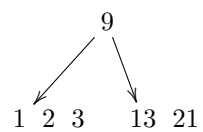
Insert 13

1 3 9 13 21

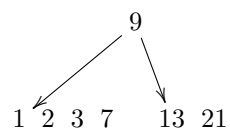
This violates condition 5, so we promote the 9



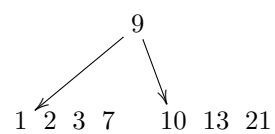
Insert 2



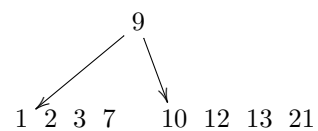
Insert 7



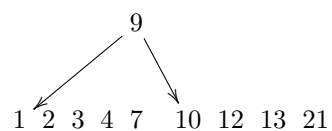
Insert 10



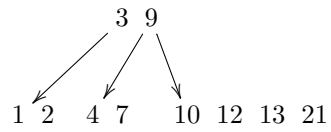
Insert 12



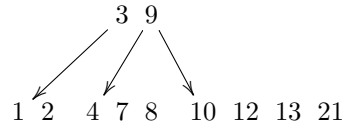
Insert 4



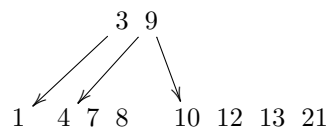
This violates condition 5, so we promote 3



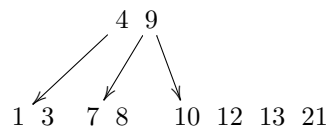
Insert 8



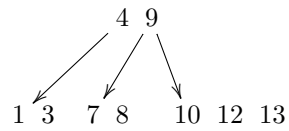
Delete 2



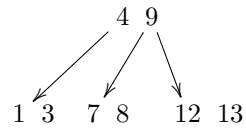
This violates condition 3, so we rotate the 3 and 4



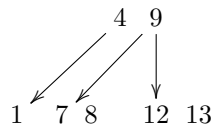
Delete 21



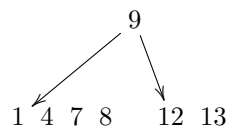
Delete 10



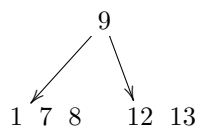
Delete 3



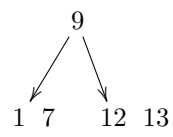
This violates condition 3, so we demote 4



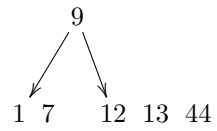
Delete 4



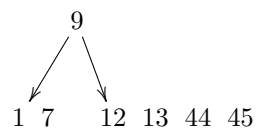
Delete 8



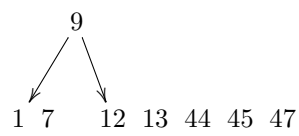
Insert 44



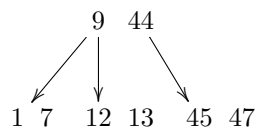
Insert 45



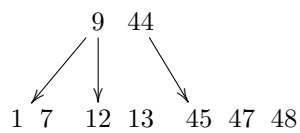
Insert 47



This violates condition 5, so we promote the 44



Insert 48



Insert 49

