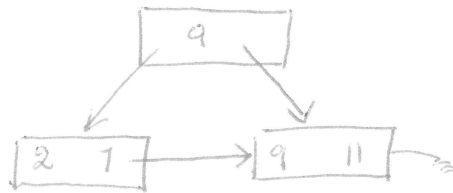
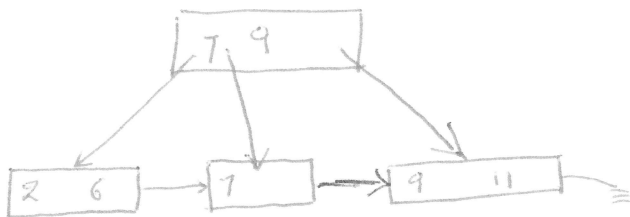


Problem 5c. i

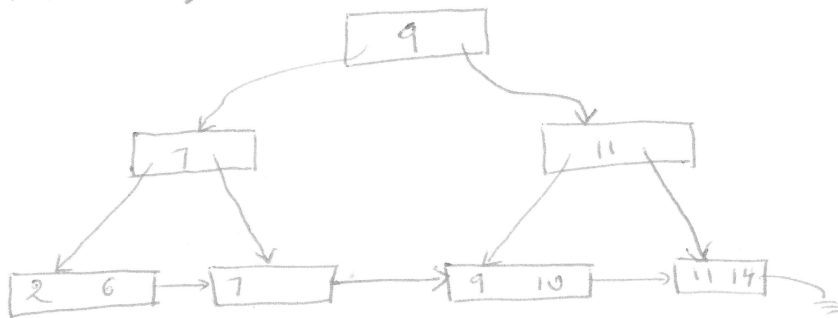
1



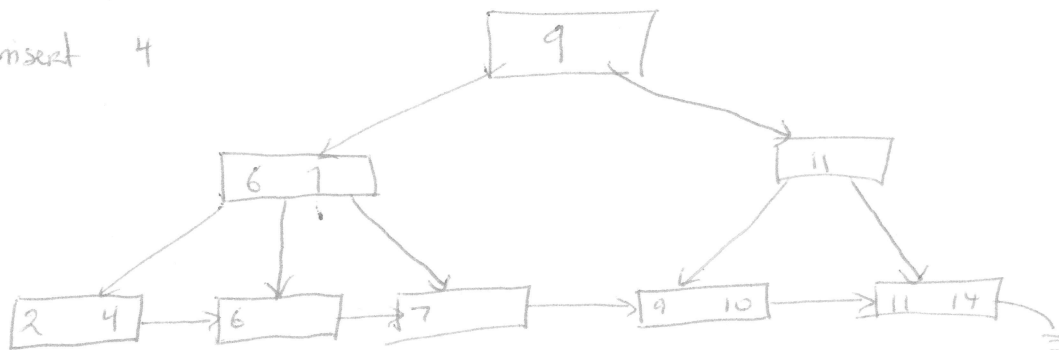
insert 6



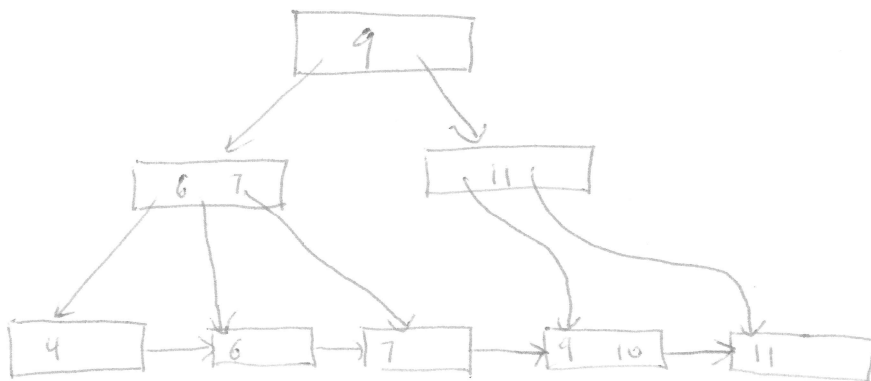
insert 10, 14



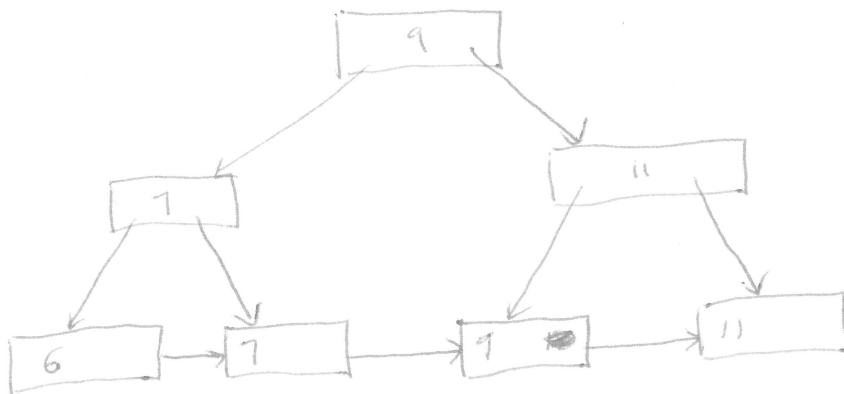
insert 4



Delete 2, 14

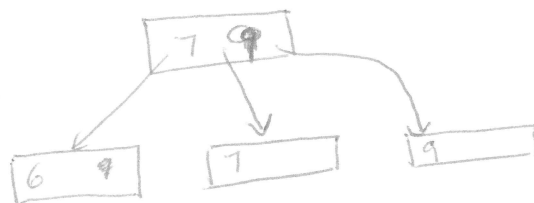


Delete 4, 10



~~Consider now deleting 11.~~

Consider now deleting 11.



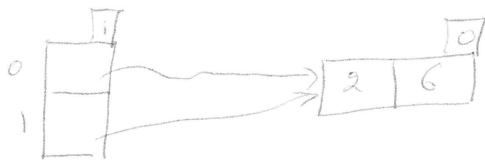
Problem 6a

3

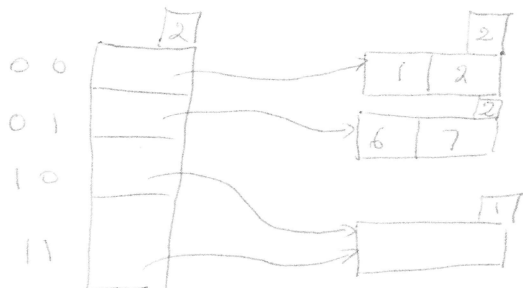
Observe that we need 4 bits to represent
0, 1, 2, 4, 6, 7, 8, 9

0 \rightsquigarrow 0000
 1 \rightsquigarrow 0001
 2 \rightsquigarrow 0010
 4 \rightsquigarrow 0100
 6 \rightsquigarrow 0110
 7 \rightsquigarrow 0111
 8 \rightsquigarrow 1000
 9 \rightsquigarrow 1001

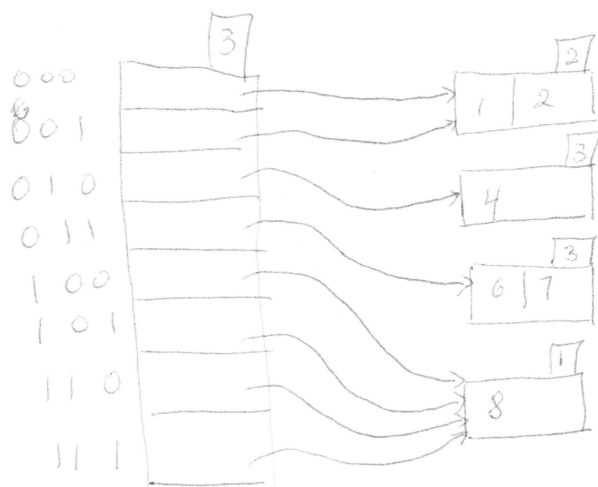
Insert 2, 6



Insert 1, 7



Insert 4, 8

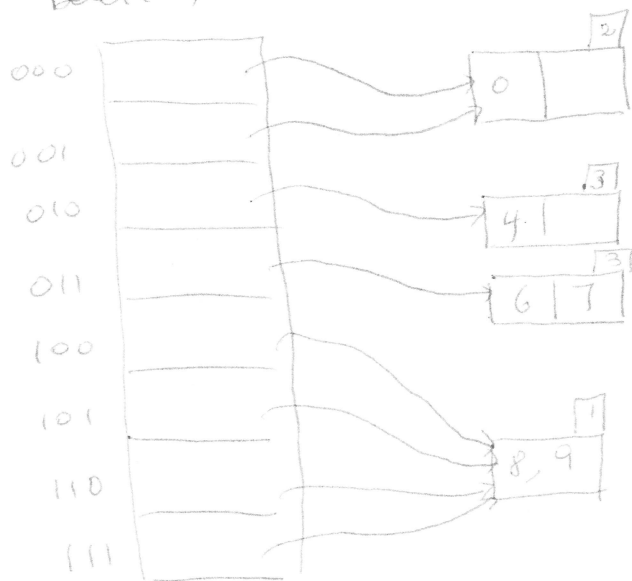


Insert 0, 9

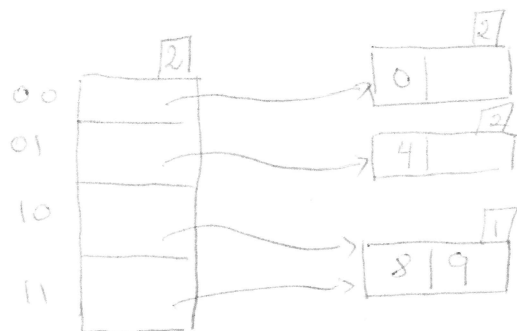


Problem 6b

Delete 1, 2



Delete 6, 7



Delete 0, 9

