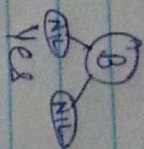
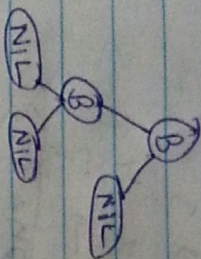


Q.2. Ans:

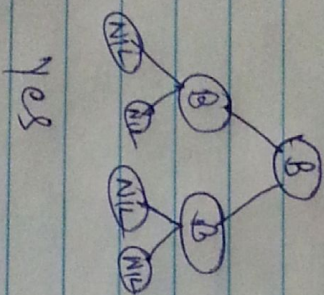
n=1



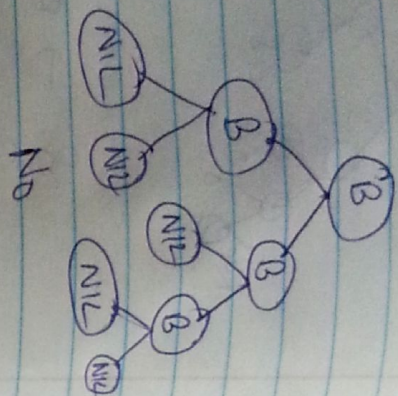
n=2



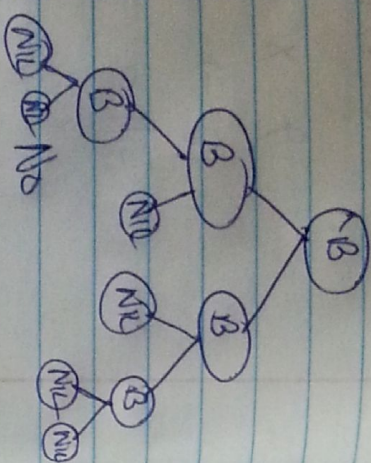
n=3



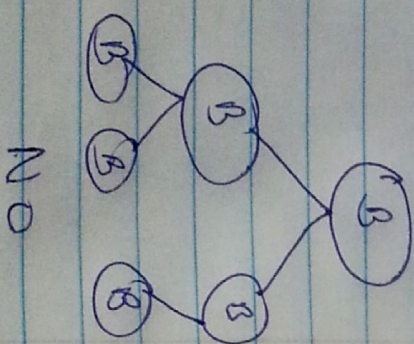
n=4



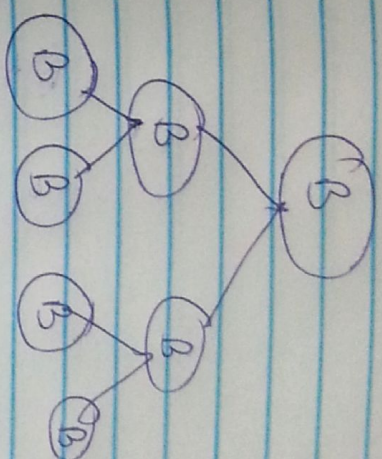
n=5



n=6



n=7



Yes

So, in conclusion we can summarize the result in the following table:

Number of Nodes (n)	Does R-B Tree exist with n-nodes & all-black?
1	Yes
2	No
3	Yes
4	No
5	No
6	No
7	Yes