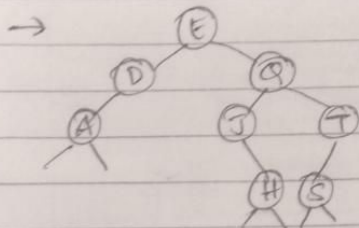
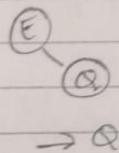


Give the sequences of nodes examined when the methods in BST are used to compute each of the following quantities for the tree drawn at below.

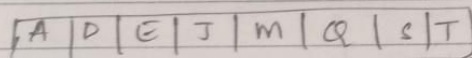
Ordered operation :-



(a) floor("Q").

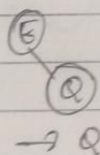


(b) Select(3)

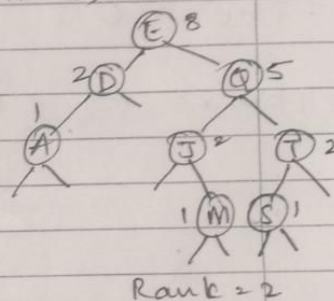


→ Q

(c) ceiling("Q")



(d) rank(J)



(e) size(D, T)

Rank of D = 2

Rank of T = 2

Rank(D) - Rank(T) + 1

= 2 - 2 + 1 = 1

(f) Keys(D, T)

