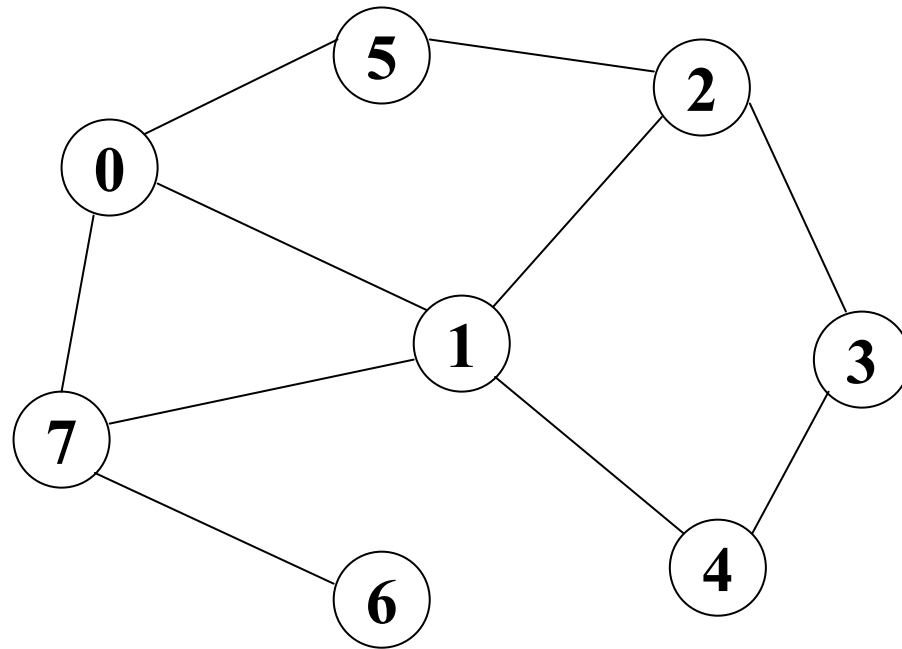
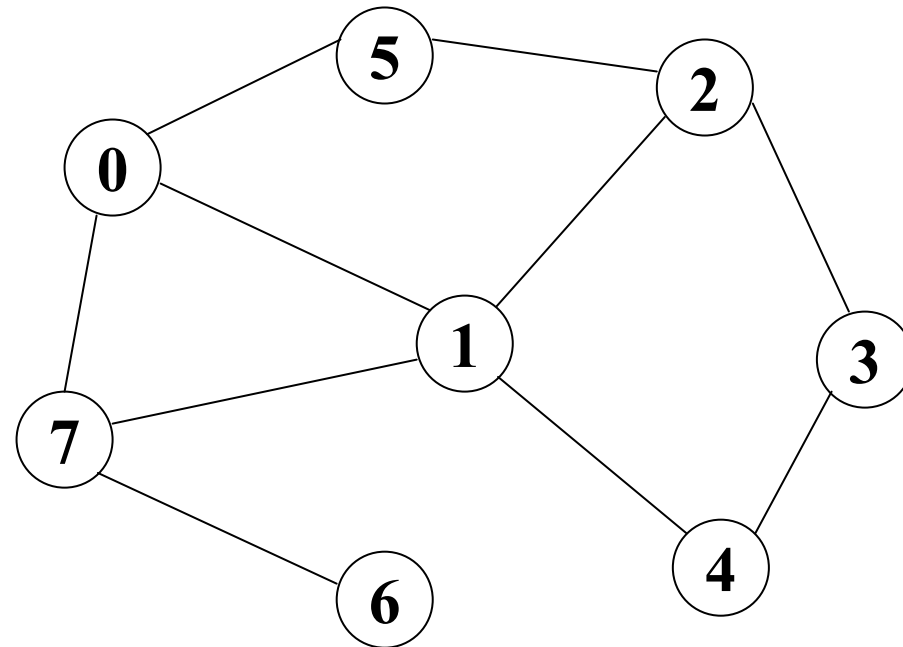


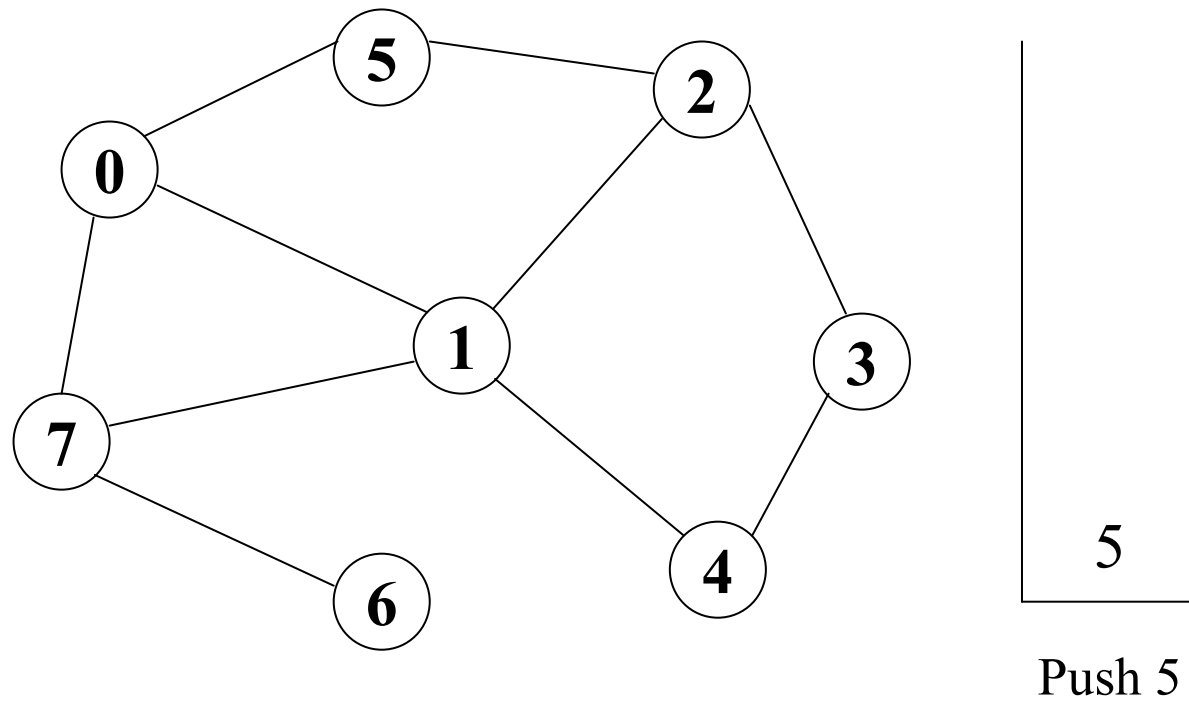
Example



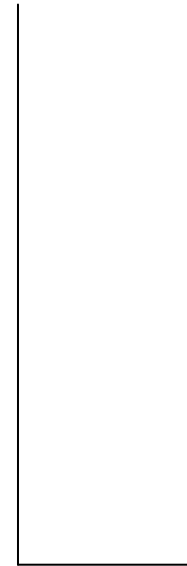
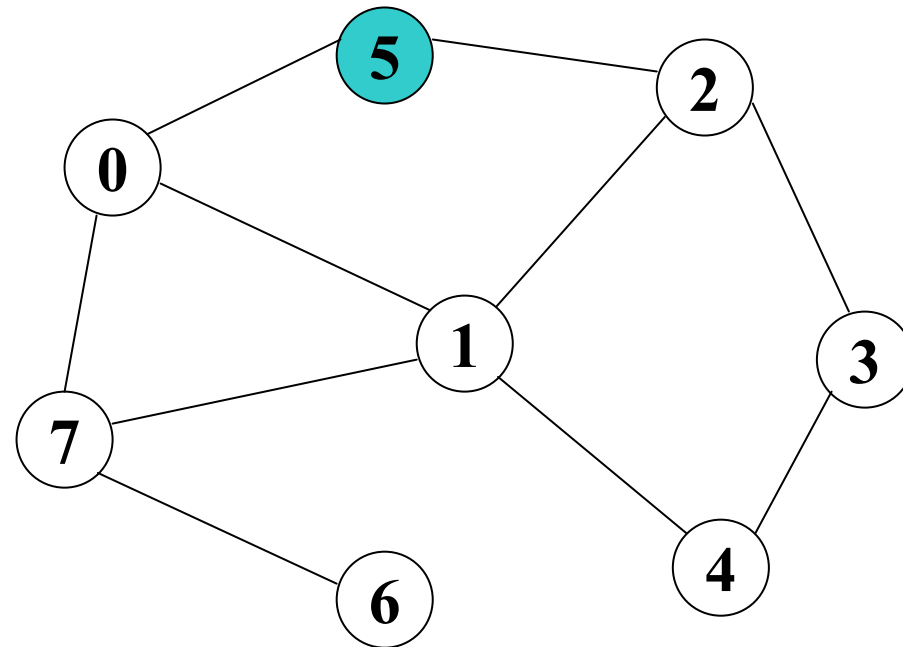
DFS: Starting Node = 5



Step 1



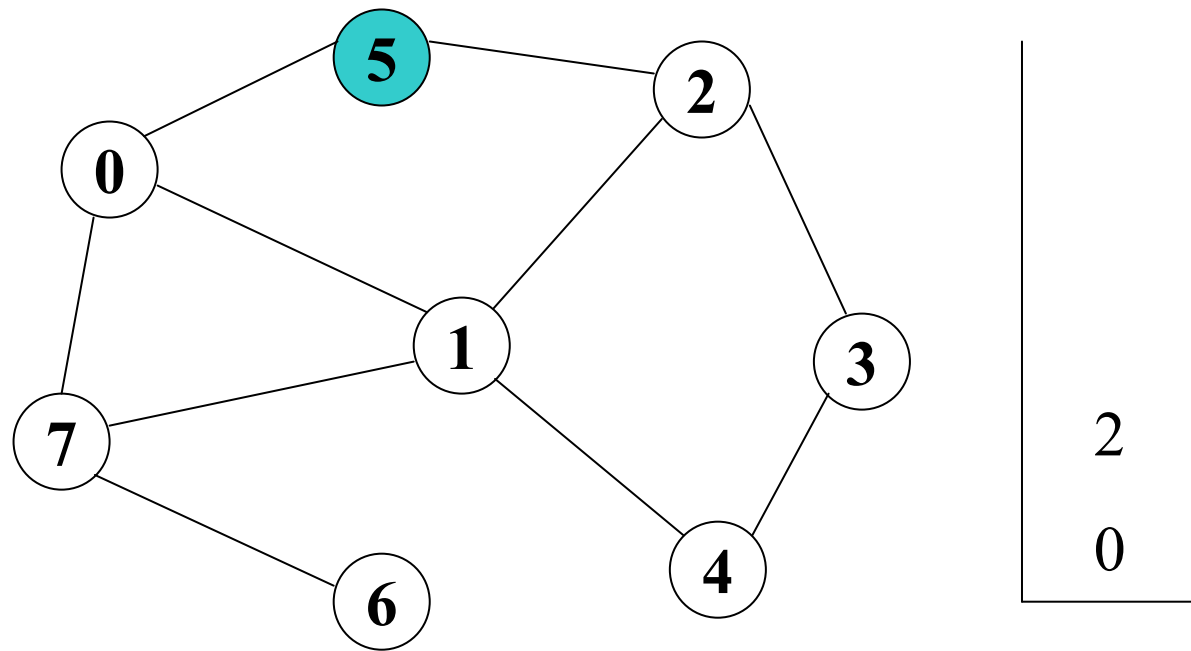
Step 2



Pop/Visit/Mark 5

5

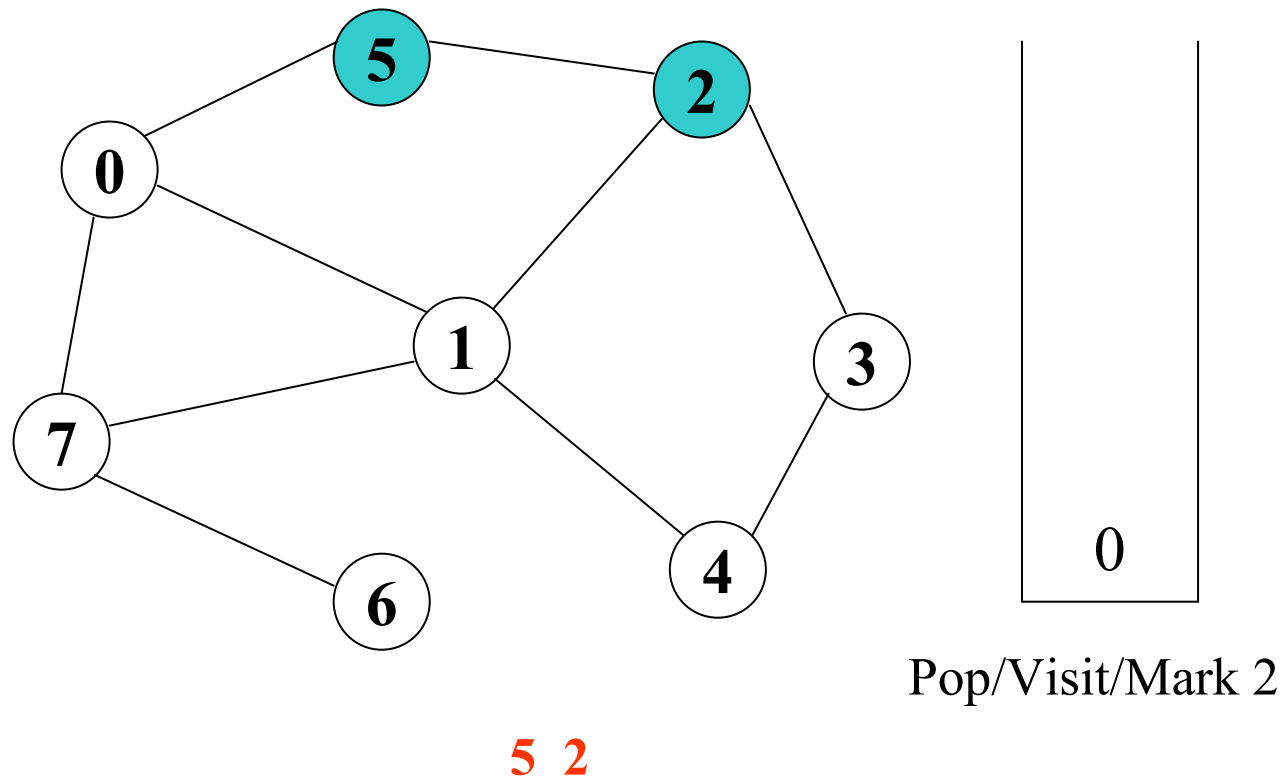
Step 3



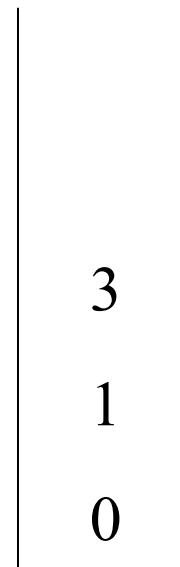
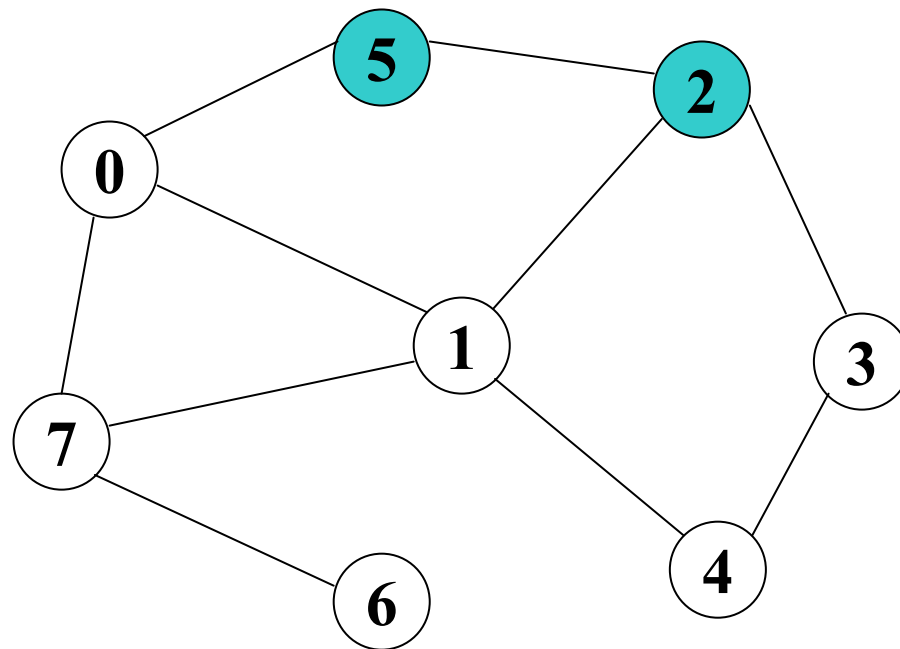
Push 0, Push 2

5

Step 4



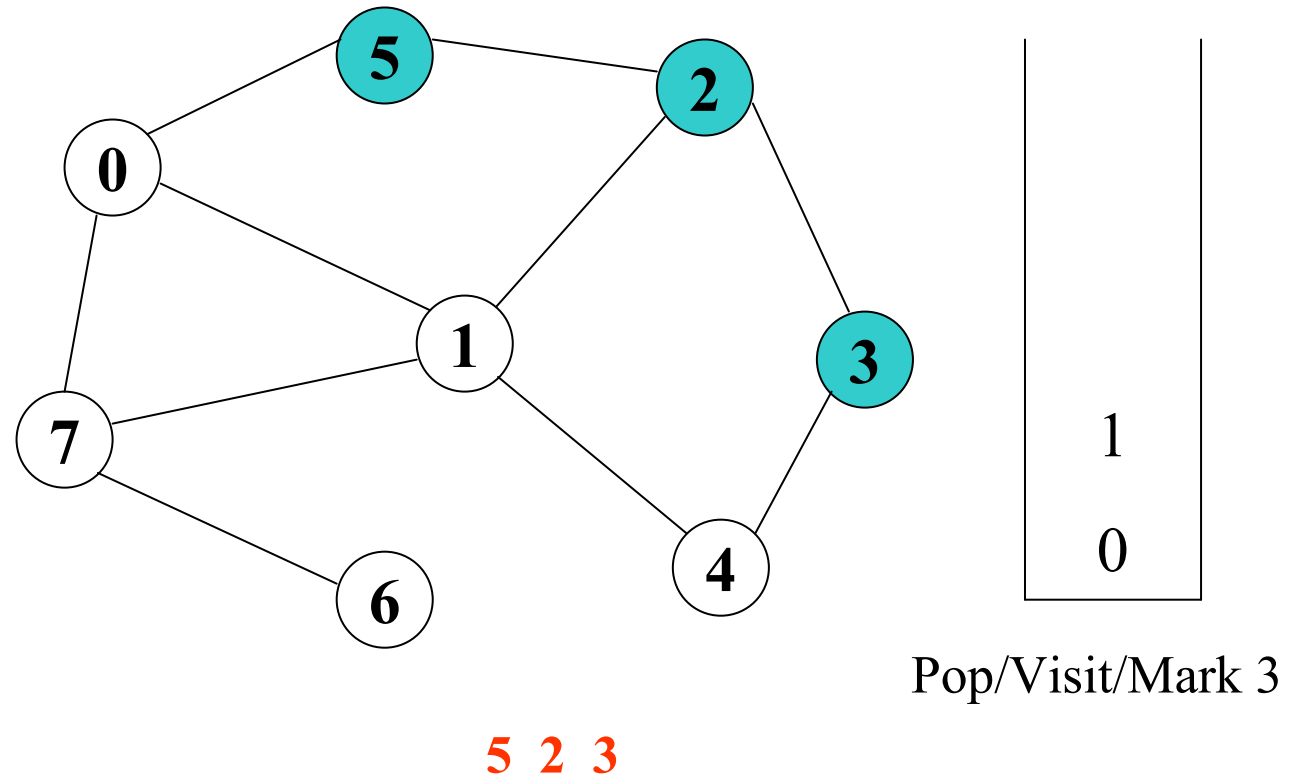
Step 5



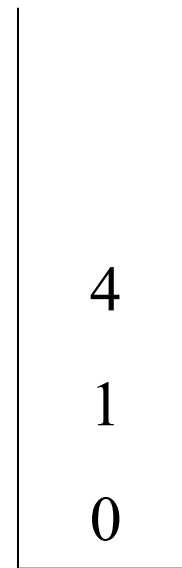
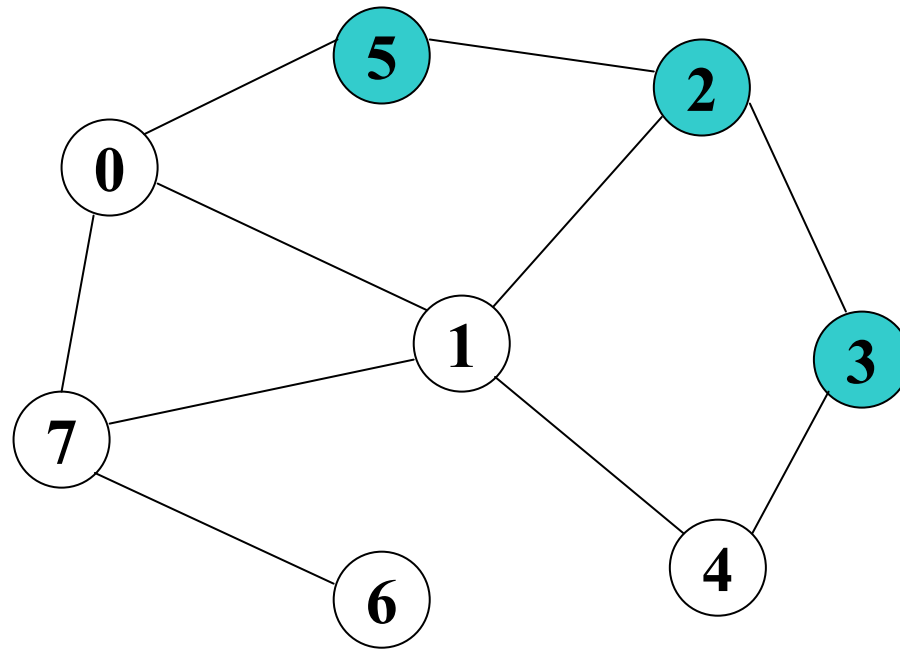
Push 1, Push 3

5 2

Step 6



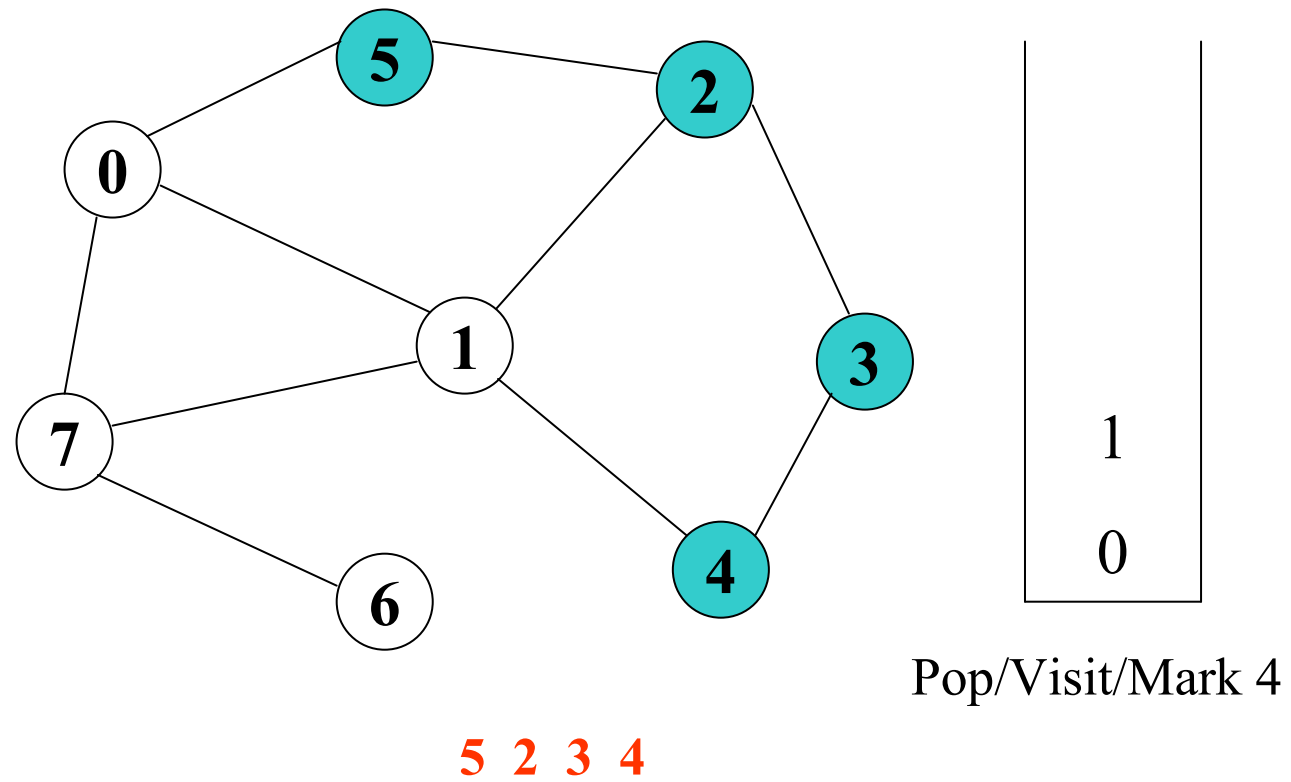
Step 7



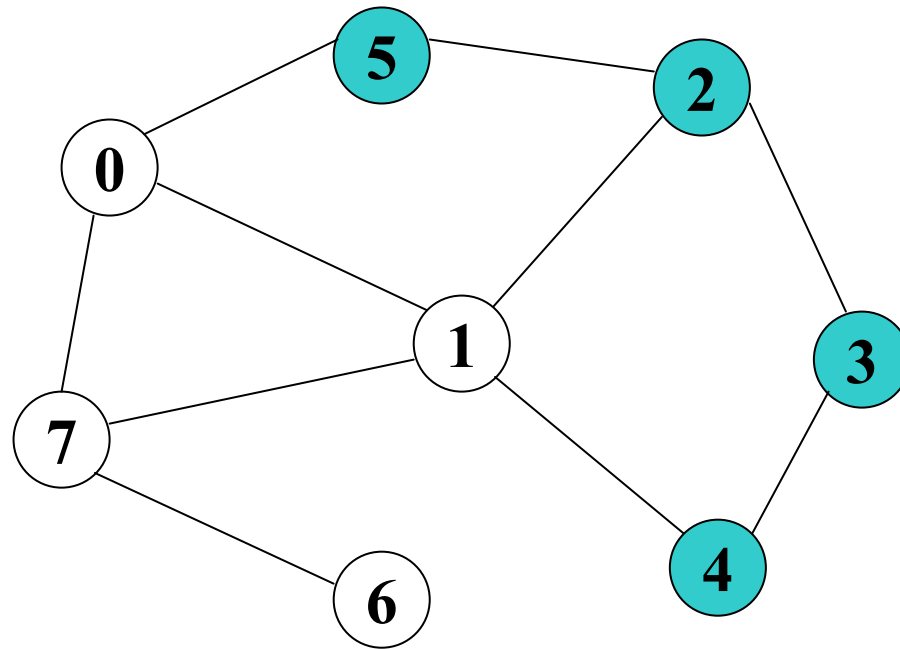
Push 4

5 2 3

Step 8



Step 9

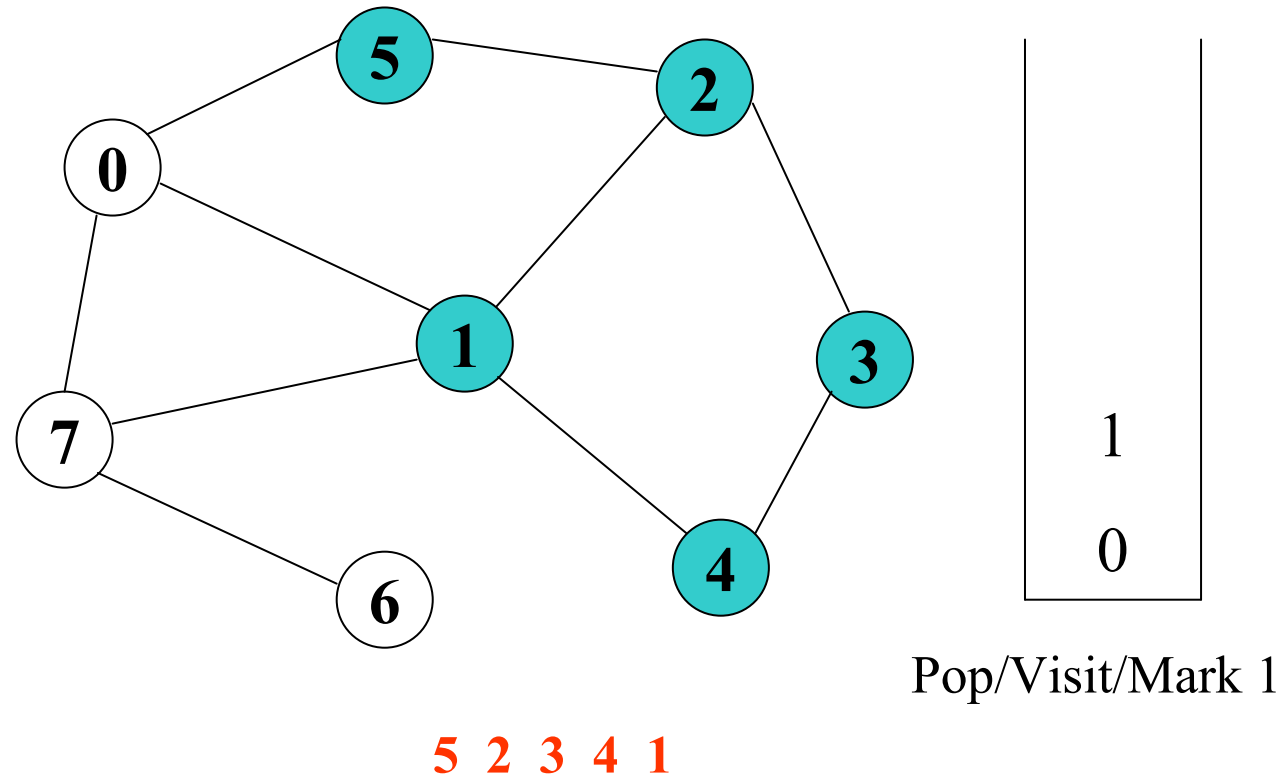


1
1
0

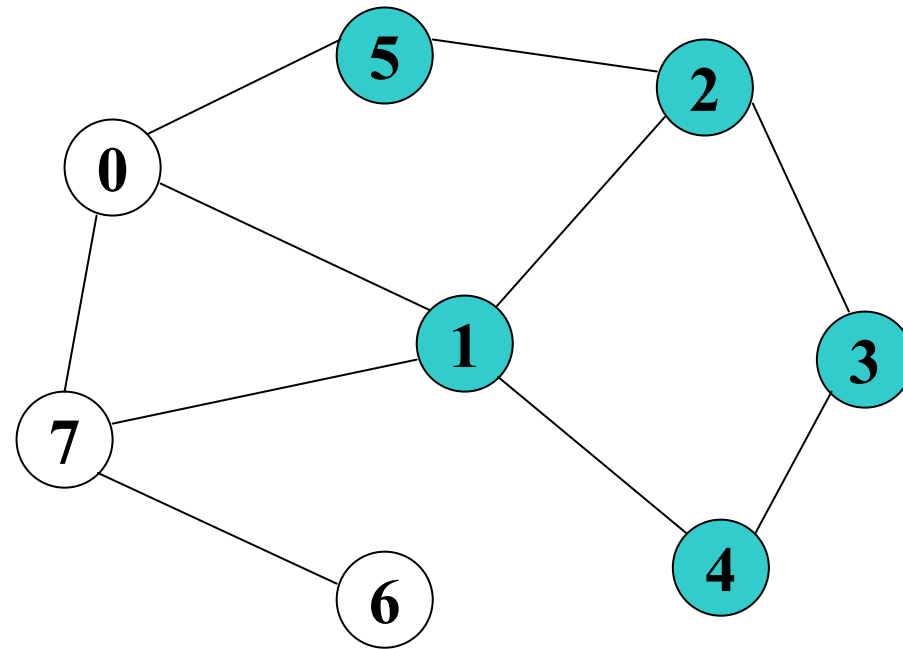
Push 1

5 2 3 4

Step 10



Step 11

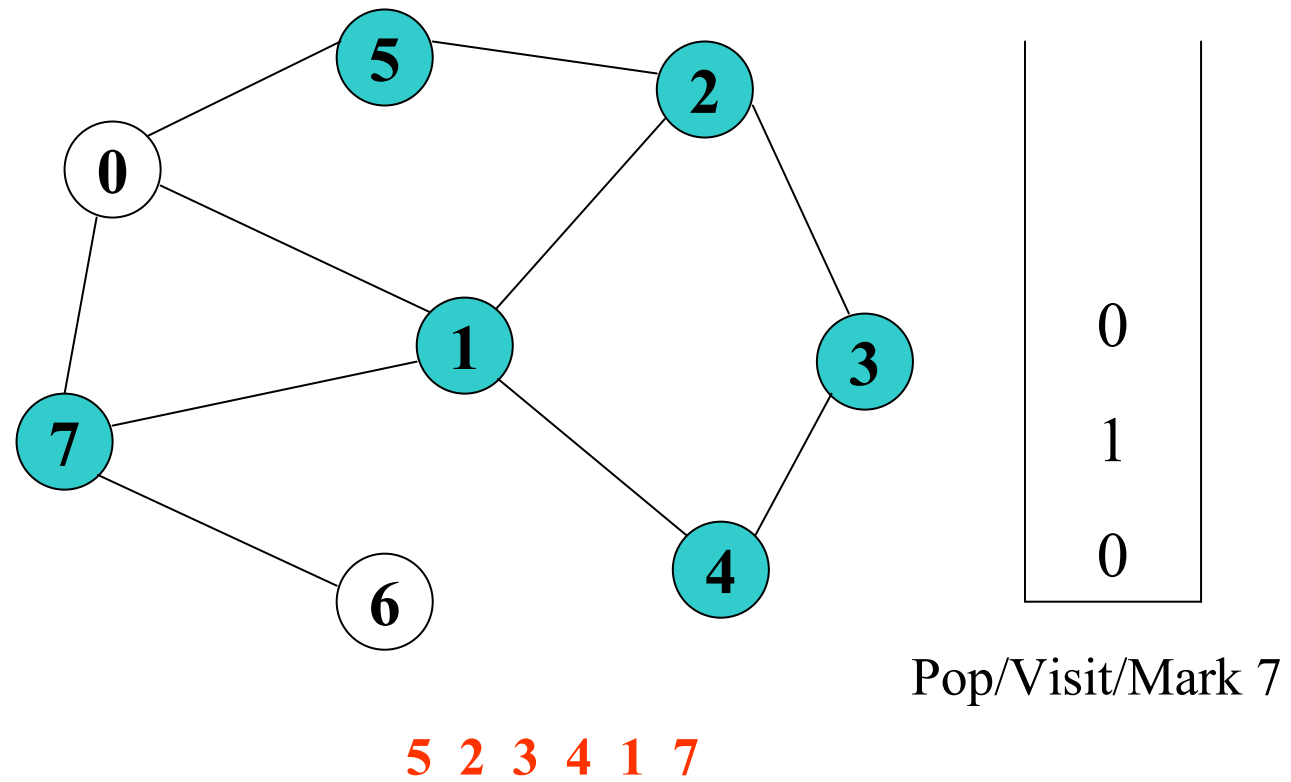


7
0
1
0

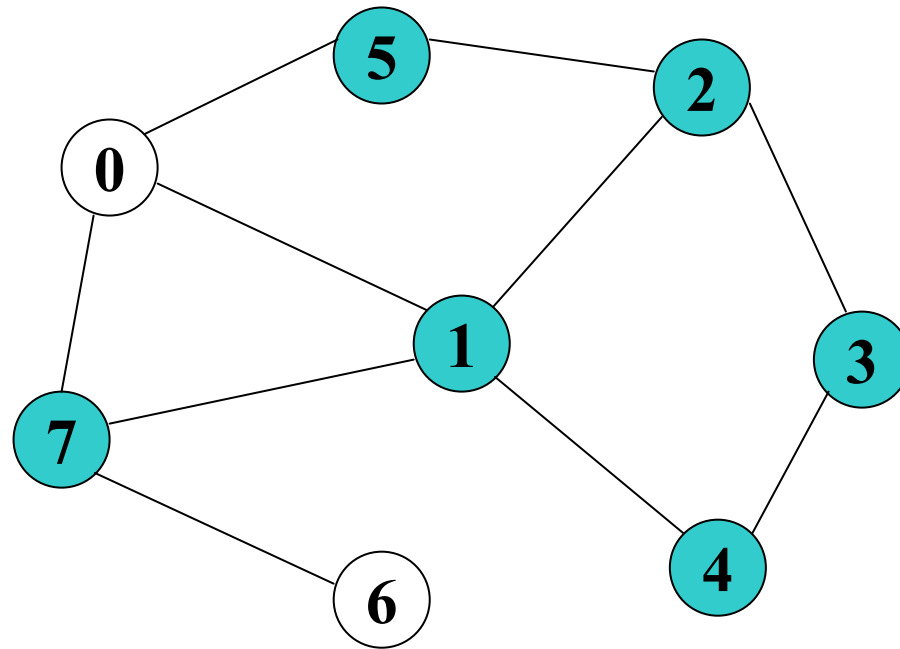
Push 0, Push 7

5 2 3 4 1

Step 12



Step 13

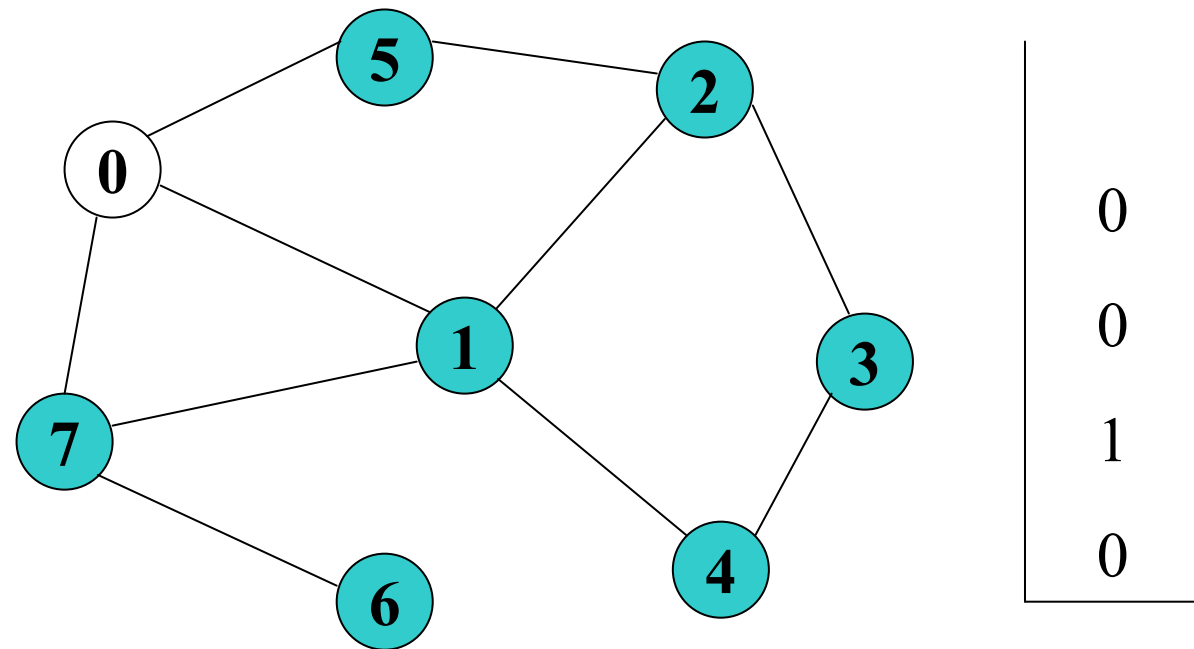


6
0
0
1
0

Push 0, Push 6

5 2 3 4 1 7

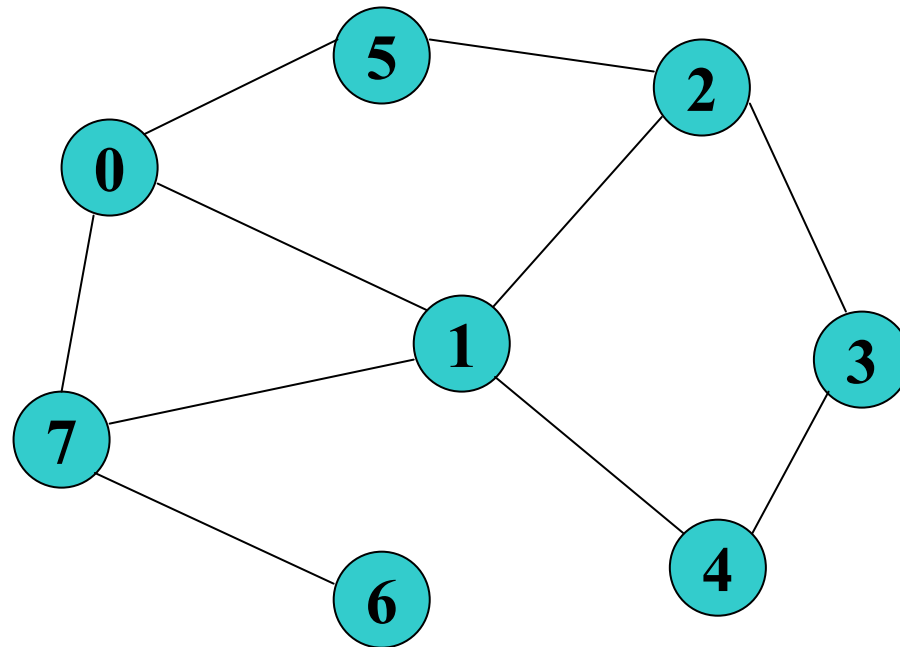
Step 14



Pop/Visit/Mark 6

5 2 3 4 1 7 6

Step 15

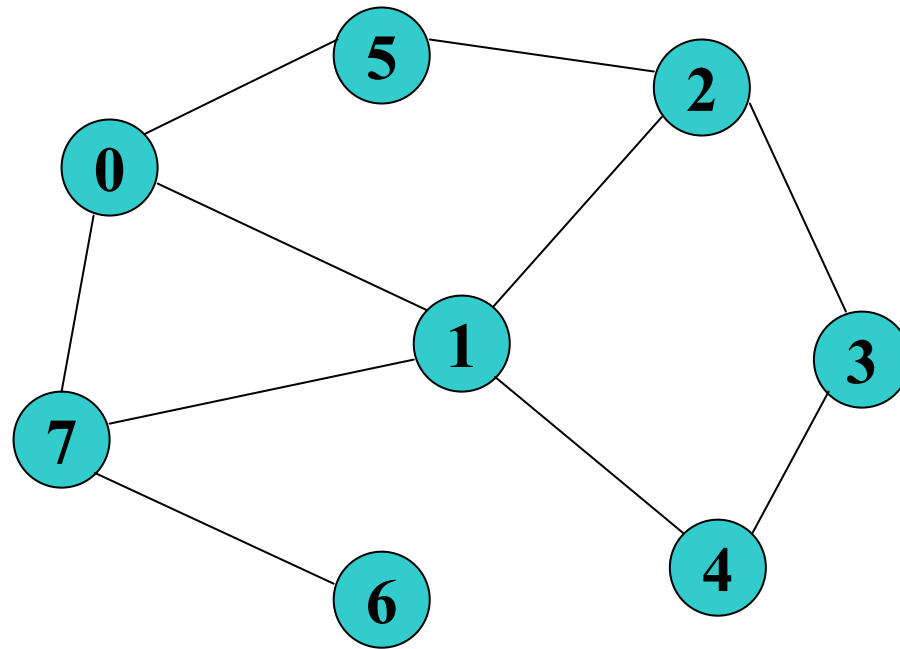


0
1
0

Pop/Visit/Mark 0

5 2 3 4 1 7 6 0

Step 16

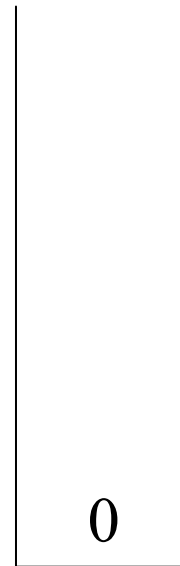
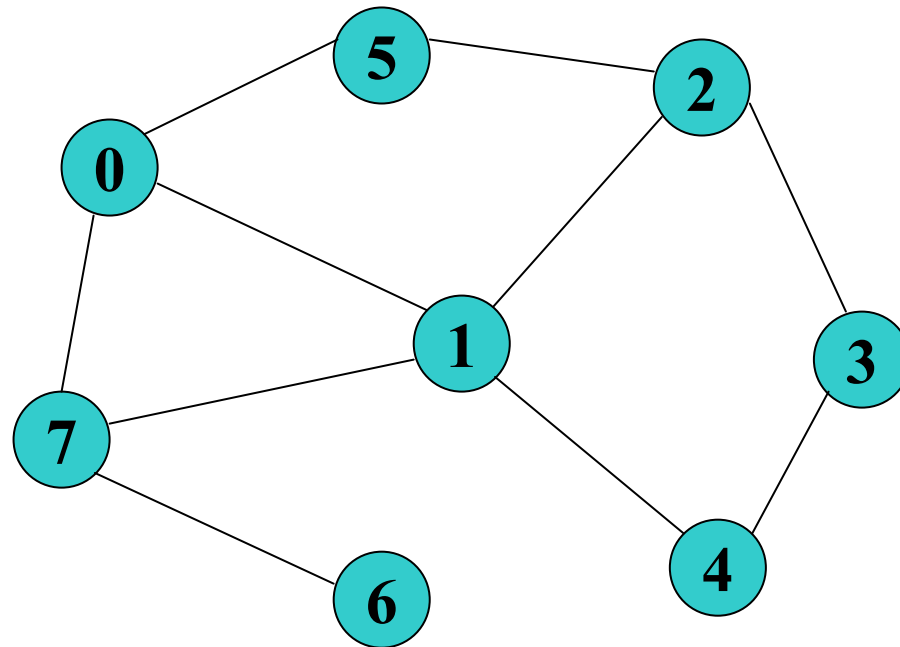


1
0

Pop/don't visit/don't mark 0

5 2 3 4 1 7 6 0

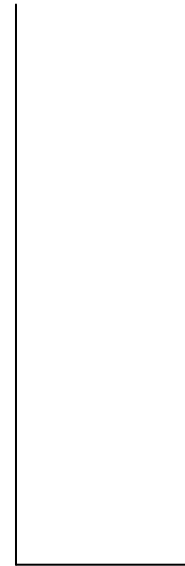
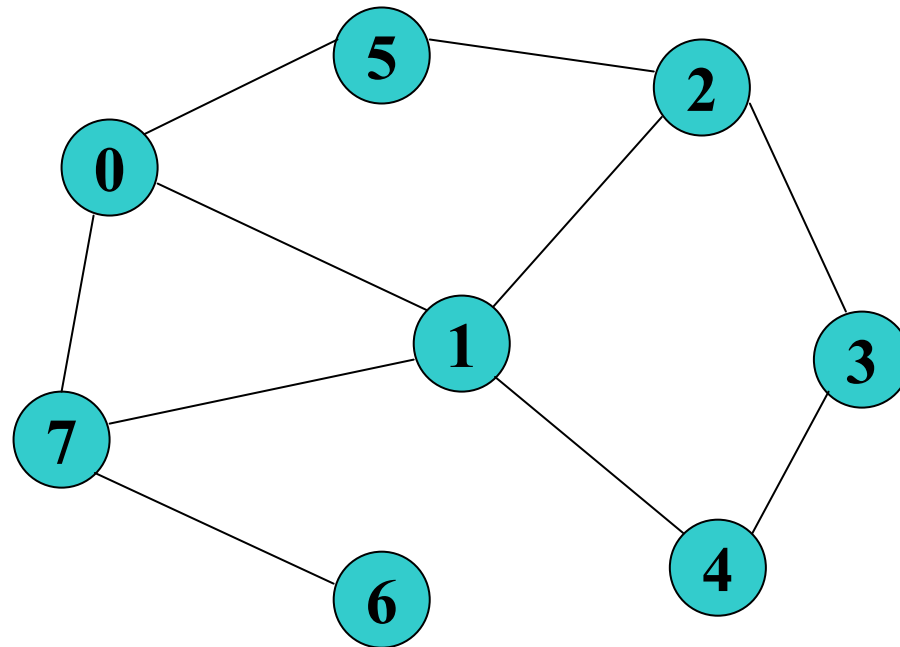
Step 17



Pop/don't visit/don't mark 1

5 2 3 4 1 7 6 0

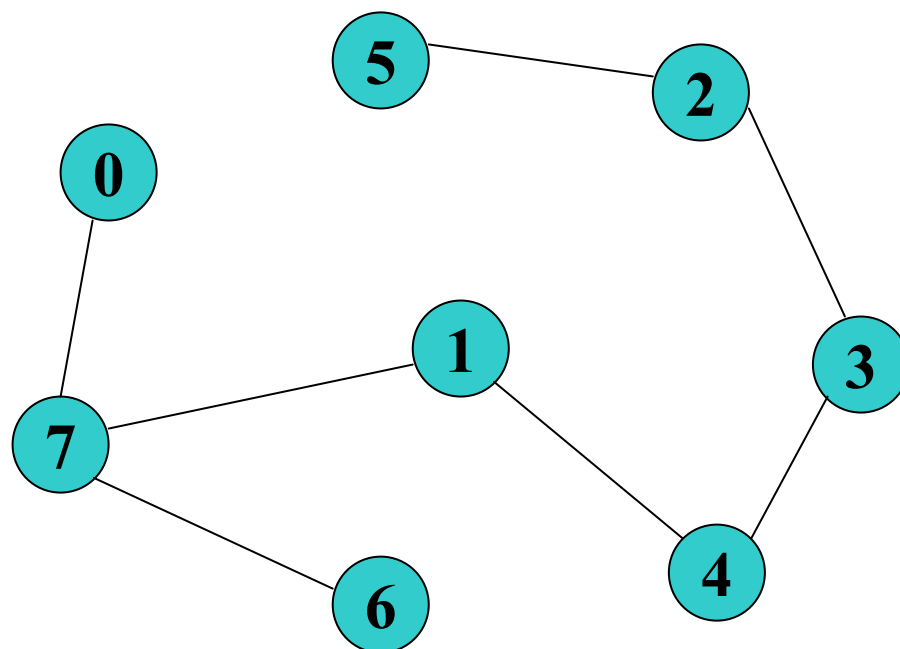
Step 18



Pop/don't visit/don't mark 0

5 2 3 4 1 7 6 0

Done!



درخت ایجاد شده پس از اجرای الگوریتم DFS روی گراف بدون جهت ارائه شده در این مثال.