

take source 0
 Make adjacency list in
 ascending order.

① Enqueue 0

$Q = \{0\}$

0 T

1

2

3

4

5

6

7

8

9

~~4~~

$$\textcircled{2} \quad Q = \{0\} \rightarrow \{8\}$$

dequeue 0 and enqueue its
unvisited neighbors

0

1

2

3

4

5

6

7

8

T

0

9

$$\textcircled{3} \quad Q = \{8\} \rightarrow \{2, 9\}$$

dequeue 8 and enqueue its
unvisited neighbors T on VT

0

T

1

2

T

8

3

4

5

6

7

8

T

0

9

T

8

$$\textcircled{4} \quad \{2, 9\} \rightarrow \{9, 1, 4\}$$

dequeue 2 and enqueue
its unvisited neighbors and
T on VT and source on PL

0	T	
1	T	2
2	T	8
3		
4	T	2
5		
6		
7		
8	T	0
9	T	8

(5)

$$\{9, 1, 4\} \rightarrow \{1, 4\}$$

dequeue 9 and enqueue its
unvisited neighbors. (no in
this case)

$$\textcircled{6} \{1, 4\} \rightarrow \{4, 3, 7\}$$

dequeue 1 and enqueue its
unvisited neighbors

0	T	
1	T	2
2	T	8
3	T	1
4	T	2
5		
6		
7	T	1
8	T	0
9	T	8

$$(7) \{4, 3, 7\} \rightarrow \{3, 7\}$$

dequeue 4 and enqueue
its unvisited neighbors
(no one in this case)

$$(8) \{3, 7\} \rightarrow \{7, 5\}$$

dequeue 3 and enqueue
its unvisited neighbors

0	T	
1	T	2
2	T	8
3	T	1
4	T	2
5	T	3
6		
7	T	1
8	T	0
9	T	8

$$(9) \{7, 5\} \rightarrow \{5, 6\}$$

dequeue 7 and enqueue
its unvisited neighbors

0	T	
1	T	2
2	T	8
3	T	1
4	T	2
5	T	3
6	T	7
7	T	1
8	T	0
9	T	8

$$(10) \{5, 6\} \rightarrow \{6\}$$

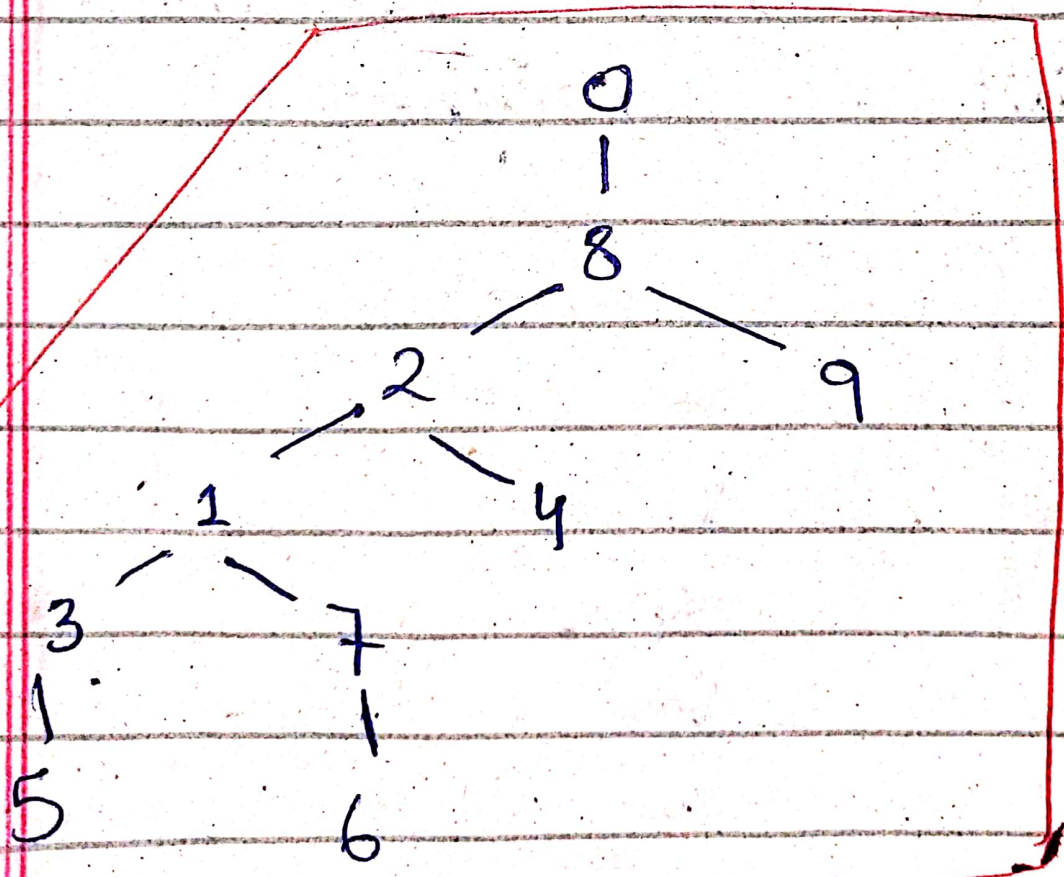
dequeue 5 and 11

(no one in this case)

$$(11) \{6\} \rightarrow \{\}$$

dequeue 6 and 11

no one in this case



tree confirm