BFS Traversal path from 2 to 1
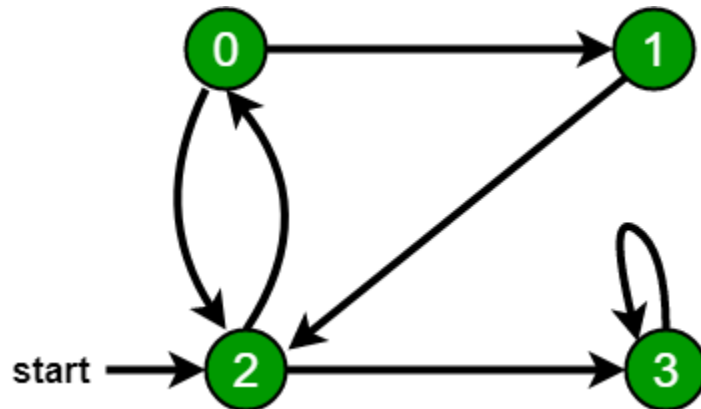

Source = 2
Destination = 1

Step 01:
At first, the queue and marked are both empty

Marked:

Queue:

Step 02:
The source(Node 2) is marked as well as pushed into the queue

Marked:

2			

Queue:

2			

Step 03:
Node 2 is popped from the queue and it's adjacent nodes(node 0 and node 3) are marked and pushed into the queue

Marked:

2	0	3	

Queue:

0	3		

Step 04:
After that, the first element of the current queue which is node 0, will be popped from the queue and it's adjacent nodes(node 2 and node 1) will be marked and pushed to the queue. Since node 2 is already visited, we can ignore it. We would have popped node 3 after that but since our destination (node 1) is already marked, we can stop our traversal here.

Marked:

2	0	3	1

Queue:

3	1		