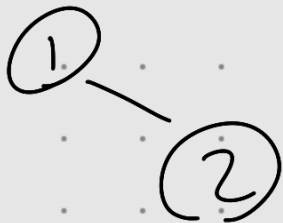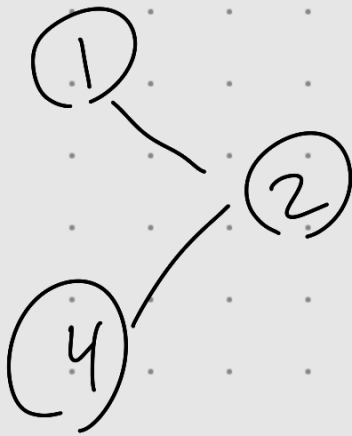**BFS**

1, 2, 4, 3

①   Node 1 is put on queue, marked as explored.
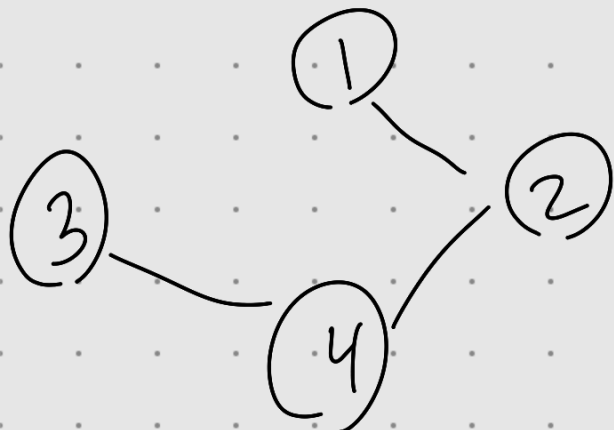
    Node 1 neighbors put on queue

① — ②

Node 2 marked as visited neighbors not already in queue is put on queue. So Node 3.

① — ② — ④

Node 4 marked

③ — ① — ② — ④

Node 3 only node not marked. visited.