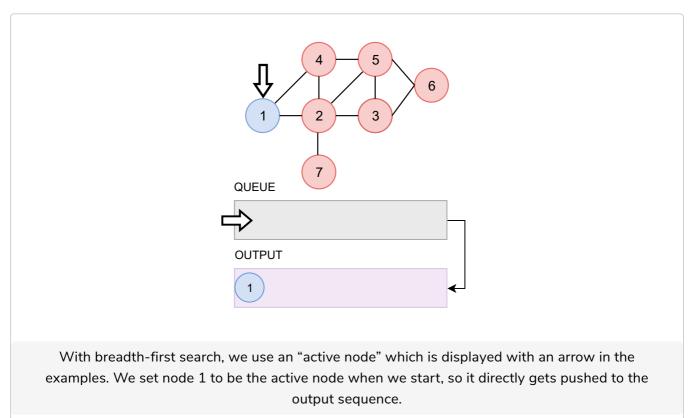
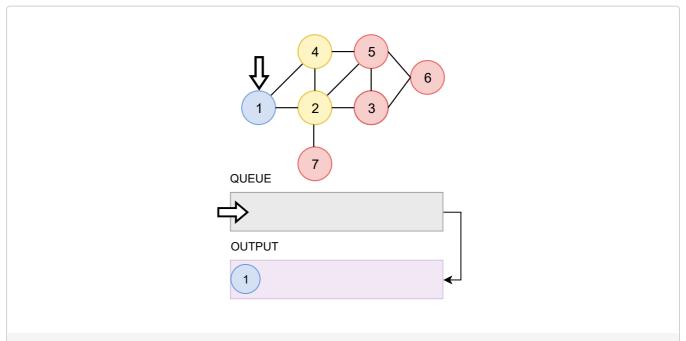
Graphs (Breadth-first traversal)

The nodes are traversed from left to right. (Reading time: under 2 minutes)

Like always, we use a queue with breadth-first traversal.

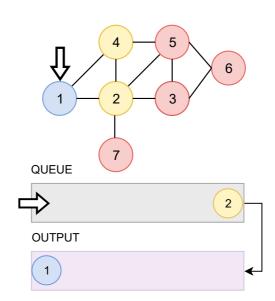


1 of 9



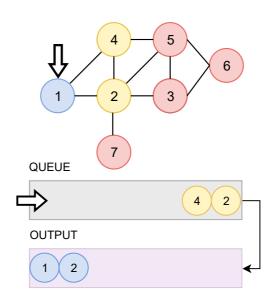
We visit the active node's child nodes, mark them as visited, push them to the queue numerically,

2 of 9



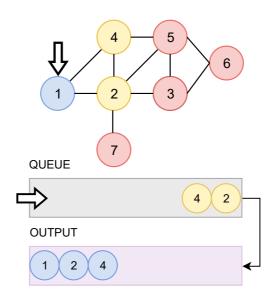
We visit the active node's child nodes, mark them as visited, push them to the queue numerically, and add them to the output sequence! Node 1 doesn't have any other child nodes, so we set the first node in the queue to be the active node now, which is node 2.

3 of 9



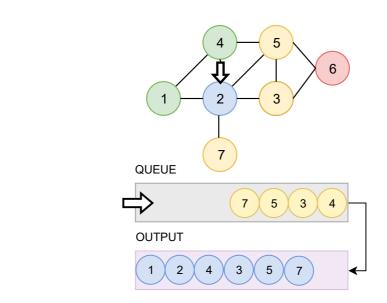
We visit the active node's child nodes, mark them as visited, push them to the queue numerically, and add them to the output sequence! Node 1 doesn't have any other child nodes, so we set the first node in the queue to be the active node now, which is node 2.

4 of 9



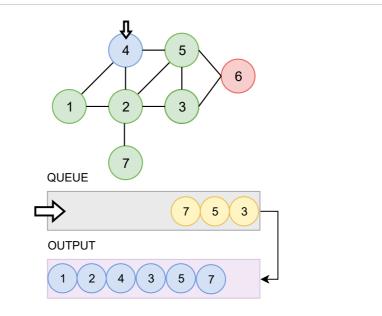
We visit the active node's child nodes, mark them as visited, push them to the queue numerically, and add them to the output sequence! Node 1 doesn't have any other child nodes, so we set the first node in the queue to be the active node now, which is node 2.

5 of 9



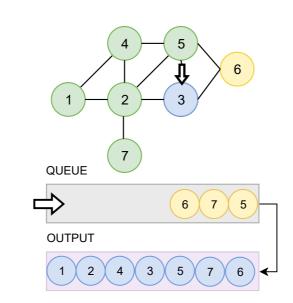
Node 2 gets removed from the queue, and its child nodes get pushed to the queue and output sequence in numerical order.

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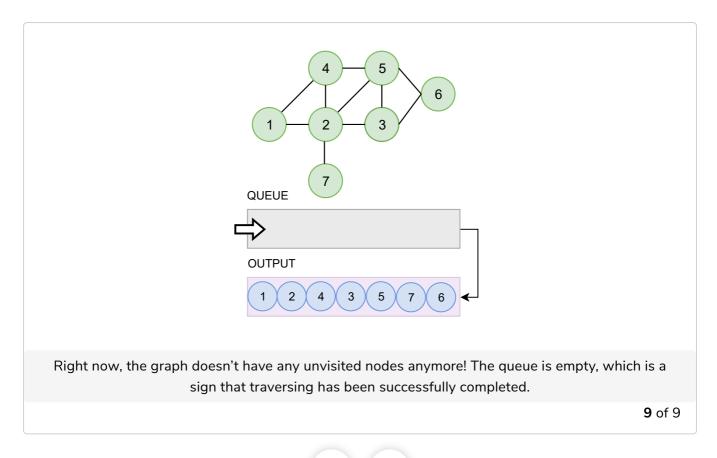
The next node in the queue is 4, however 4 doesn't have any unvisited child nodes. We keep on removing nodes from the queue, until we find a node that has unvisited child nodes.

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The next in the queue is node 3, which has an unvisited child node 6! 6 gets pushed to the queue and sequence array.

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(-) (3)

In the next chapter, I will talk about various algorithms and their time complexity.