***Algorithm for Breadth First Search (BFS)***

1. Initialize a queue and mark the starting node as visited.

2. Enqueue the starting node into the queue.

3. While the queue is not empty:

o Dequeue a node from the front of the queue.

o Visit the node and process it.

o For each unvisited neighbor of the current node:

- Mark the neighbor as visited.

- Enqueue the neighbor into the queue.

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