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# BFS

**Breadth-first search (BFS)** is an algorithm for searching a tree data structure for a node that satisfies a given property. It starts at the tree root and explores all nodes at the present depth prior to moving on to the nodes at the next depth level. Extra memory, usually a queue, is needed to keep track of the child nodes that were encountered but not yet explored.

# Example



Open

Closed



Open

Closed

Open

Closed



Select the lower f to expand

Open

Closed

Open

Closed



Open

Closed

Open
Closed



Open
Closed

Open

Closed



Open

Closed

Open

Closed



Open

Closed