

Breadth-First Search

Root \rightarrow A root node of a graph

Adj \rightarrow Get adjacent nodes from node

Q \rightarrow Queue

node \rightarrow Auxiliary node

Visited \rightarrow Set of visited nodes

// Insert root in the queue

Q = Root

while (!Q.empty())

// Get next node

node \leftarrow Q.front

// Mark as visited

Visited.insert(node)

// Get adjacent nodes

adj \leftarrow Adj(node)

// Remove visited nodes

adj \leftarrow nodes not in visited

// Push all unvisited nodes to Q

for each e in adj, push to queue.

// Perform callback

callback(node)