Breadth First Search

*Description:*

*Breadth First Search* is the simplest Graph Algorithm, and it is also an important prototype of many Graph Algorithm. For example, Prim Algorithm and Dijkstra Algorithm all use the Breadth First Search Algorithm.

For a given Graph G = (V, E), and source node s, Breadth First Search can be used to find all accessible nodes starting from source node s. The algorithm can be used to calculate the distance from source node s to each accessible nodes, and finally generate the *“Breath First Search Tree”*.