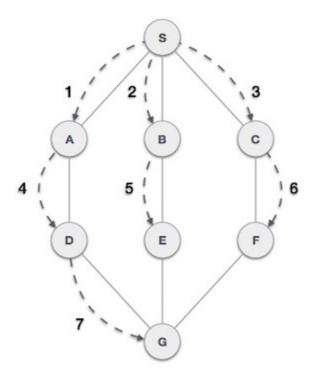
DATA STRUCTURE - BREADTH FIRST TRAVERSAL

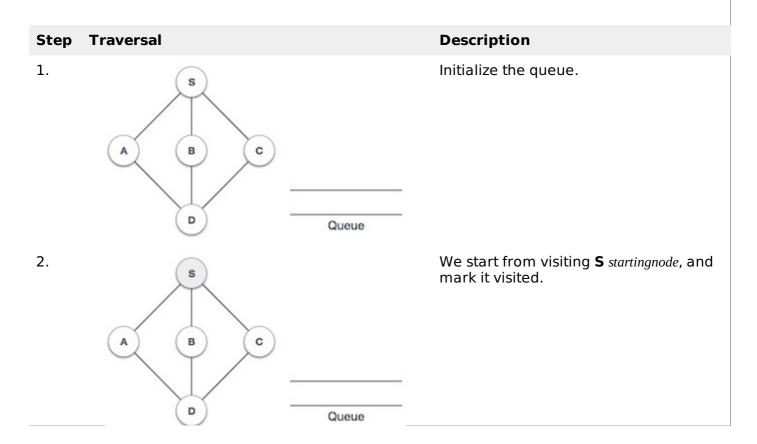
http://www.tutorialspoint.com/data structures algorithms/breadth first traversal.htm Copyright © tutorialspoint.com

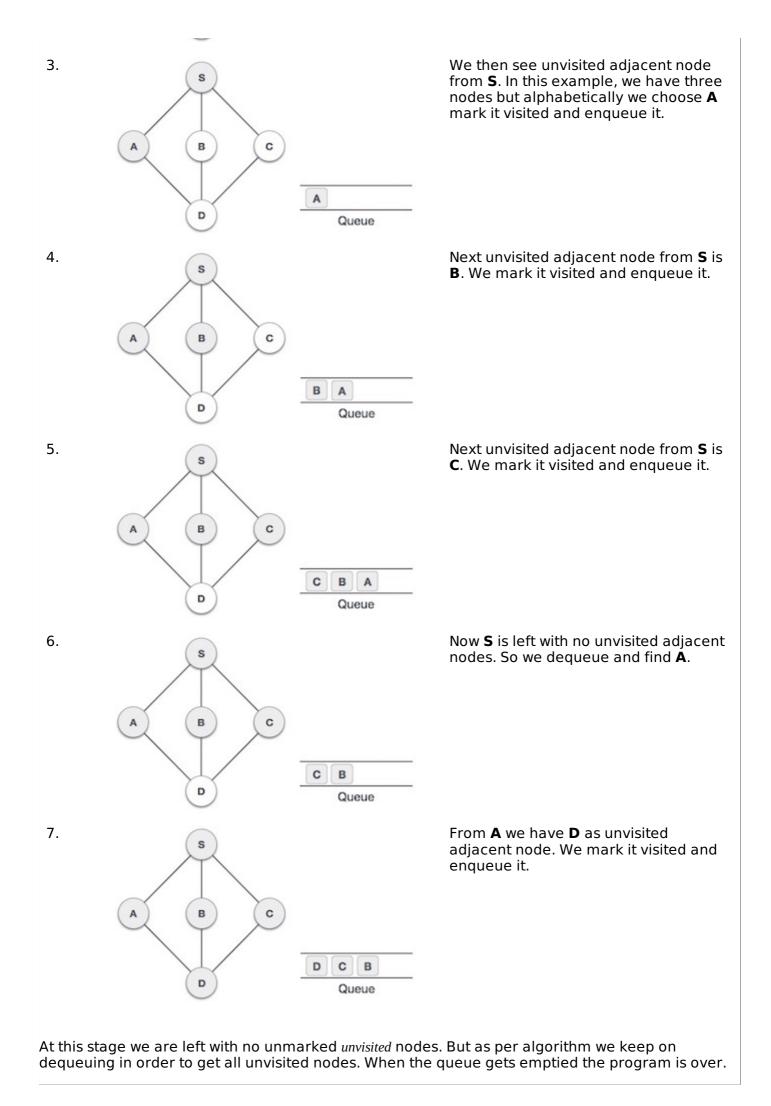
Breadth First Search algorithm BFS traverses a graph in a breadthwards motion and uses a queue to remember to get the next vertex to start a search when a dead end occurs in any iteration.



As in example given above, BFS algorithm traverses from A to B to E to F first then to C and G lastly to D. It employs following rules.

- **Rule 1** Visit adjacent unvisited vertex. Mark it visited. Display it. Insert it in a queue.
- Rule 2 If no adjacent vertex found, remove the first vertex from queue.
- Rule 3 Repeat Rule 1 and Rule 2 until queue is empty.





The implementation of this algorithm in C programming language can be <u>seen here</u>. Loading [MathJax]/jax/output/HTML-CSS/jax.js