21. Write a C program to Graph traversal using Breadth First Search

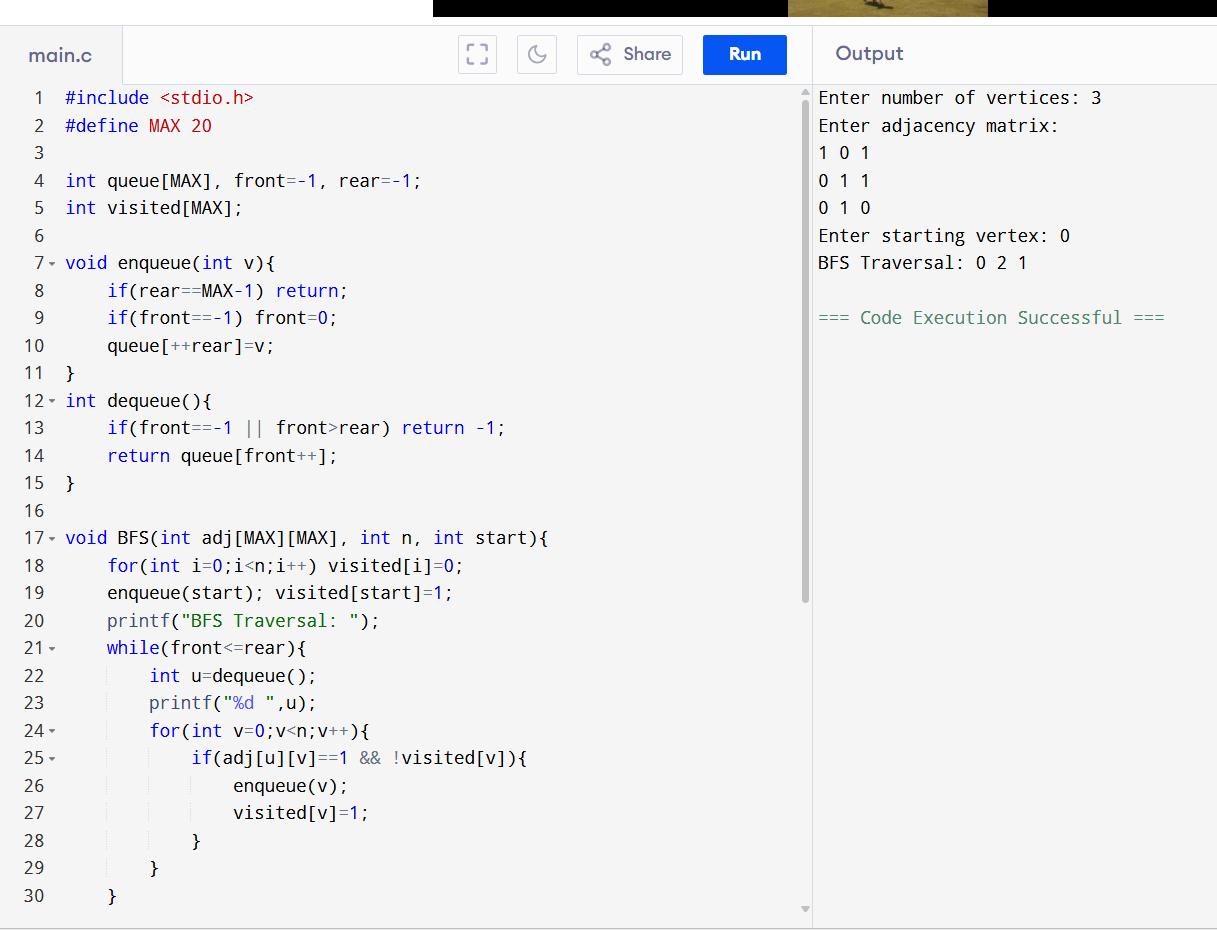
**Aim**

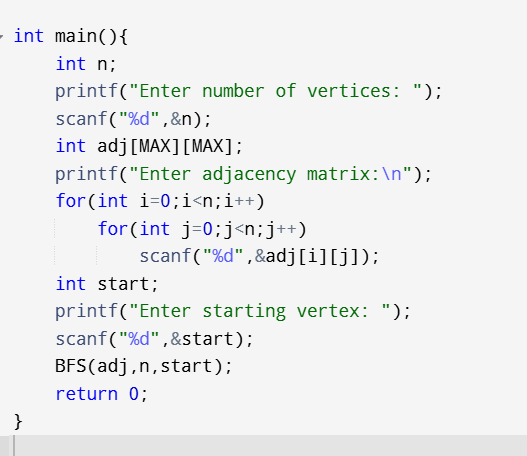
To write a C program that traverses a graph using the **Breadth First Search (BFS)** algorithm.

**Algorithm**

1. **Start**
2. Represent the graph using an **adjacency matrix** or adjacency list.
3. Create a **queue** to keep track of vertices to visit.
4. Keep a **visited[] array** to mark visited nodes.
5. Select a **starting vertex** and mark it as visited.
6. Enqueue the starting vertex.
7. While the queue is not empty:
   * Dequeue a vertex u.
   * Visit all adjacent vertices v of u.
   * If v is not visited → mark visited and enqueue v.
8. Continue until all vertices are visited.
9. **End**

**Program**



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