```
public void bfs(Vertex u) {
    u.visit(null);
    u.visited = true;
    q = new Queue(u);
    q.enqueue(u);
    while (q is not empty) {
        v = q.dequeue();
        for (each vertex w such that (v, w) is an edge in E) {
            if (!w.visited) {
                w.visit(v);
                w.visited = true;
                q.enqueue(w);
            }
        }
    }
}
```