Breadth First Search for undirected graph

These functions implement a breadth-first search (BFS) algorithm to find the connected components of an undirected graph. Here's a concise description of how it works:

The function **accessible_nodes()** utilize BFS to find all vertices accessible from a given starting vertex. By maintaining a set to track accessible vertices and a list to manage unvisited ones it systematically identifies and adds reachable vertices to the set until all are visited.

Iterating through vertices, the function **connected_components()** identify connected components by assigning vertices to components if not already included. By employing accessible_nodes() to find reachable vertices from each unassigned vertex, it constructs distinct connected components until all vertices are accounted for.



