Algorithm: DFS

Input: A set of visited nodes, a stack of nodes, a graph and a starting node

Output: The list of booleans

```
1  Procedure DFS(visited, stack, graph, node)
2      add node to visited
3      append node to stack
4      while |stack| > 0 do
5          m ← pop (stack)
6          for nb ∈ get(m, graph) do
7              if nb ∉ visited then
8                  add nb to visited
9                  append nb to stack
10         end
11     end
12     return visited
```