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