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/*
  dfs_pseudocode.txt
  Pseudocode for depth first traversal of a graph

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*/

void dfsVisit(graph g, vertex sVertex, list dfsList, bool checkCycle)
{
  color sVertex GREY // it's been seen

  set<vertices> neighbors = getNeighbors(sVertex);

  for (each n in neighbors)
    if (n is WHITE)  // it is unvisited and unseen
      dfsVisit(g, n, dfsList, checkCycle)
    else if (n is GREY)  // it's been seen before, there's a cycle
      if (checkCycle is true)
        throw an exception

  color sVertex BLACK (i.e., visited)
  dfsList.push_front(sVertex);
}
```