Depth-first traversal logic

dft – called to visit the entire graph in depth-first sequence, starting with the first. It calls dftInternal once for each vertex.

```
void dft (graph)
        set all vertices as unvisited
        position at first vertex in the graph
        while (more vertices in graph)
                if (vertex not visited)
                        dftInternal (graph, vertex)
                endif
                position at next vertex
        end while
```

dftInternal – called for a specific vertex. It visits the vertex, marks it as visited, and goes through all its neighbors. When it finds a neighbor that is unvisited, it calls itself again, passing that neighbor as the vertex.

```
void dftInternal (graph, vertex)
        visit vertex
        mark vertex visited
        position at first neighbor (there might not be one)
        while (there are more neighbors for the vertex)
                if (the neighbor has not been visited)
                        call dftInternal (graph, neighbor)
                endif
                position to next neighbor
        end while
```