

Depth-first search: data structures

To visit a vertex v :

- Mark vertex v as visited.
- Recursively visit all unmarked vertices adjacent to v .

Data structures.

- Boolean array `marked[]` to mark visited vertices.
- Integer array `edgeTo[]` to keep track of paths.
(`edgeTo[w] == v`) means that edge $v-w$ taken to visit w for first time
- Function-call stack for recursion.