Depth-first search

Goal. Systematically traverse a graph.

Idea. Mimic maze exploration. ⟵ function-call stack acts as ball of string

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DFS (to visit a vertex v)

Mark v as visited.

Recursively visit all unmarked

  vertices w adjacent to v.

Typical applications.

- Find all vertices connected to a given source vertex.
- Find a path between two vertices.

Design challenge. How to implement?