

## Contents

1 Graph Algorithms	1
1.1 DFS	1

## 1 Graph Algorithms

### 1.1 DFS

*// Depth first search*

```
int V;
vector<vi> adj;
bool vis[VMAX];
vi topsort; // Topological Sort.
            // Only works in directed acyclic graph.

void dfs(int s) {
    vis[s] = true;
    for (auto a : adj[s]) {
        if (!vis[a]) {
            dfs(a);
        }
    }
    topsort.push_back(s); // Only works in DAG.
}
```

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