



Algorithm











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	The pseudocode of depth-first traversal algorithm:
	<pre>DFS(G,s) for each vertex u in V</pre>
	<pre>While S is not empty do u = Pop(S) for each v in Adj[u] do if visited[v] = false then Report(v) visited[v] = true Put(S,v)</pre>





Path finding with DFS

```
dfs-path(v, w)
  dfs-path(v, w, empty stack)

dfs-path(v, w, S)
  push(S, v)
  for each u in Adj[v]
    if visited[u] = false and visited[w]
      = false
            dfs(u, w, S)
  if visited[w]= false
            pop(S, v)
  return S
```







