

Depth-First Search

```
dfs(G):  
    foreach node v in G  
        color(v) = white  
        pred(v) = null  
  
    foreach node v in G  
        if color(v) == white  
            dfsVisit(G, v, color, pred)  
  
    return pred
```

```
dfsVisit(G, u, color, pred):  
    color(u) = grey  
  
    foreach neighbor v of u  
        if color(v) == white  
            pred(v) = u  
            dfsVisit(G, v, color, pred)  
  
    color(u) = black
```





































