```
DFS (G)
   for each vertex u \in V[G]
              do color[u] ← WHITE
3
                 predecessor[u] \leftarrow NIL
   time \leftarrow 0
   for each vertex u ∈ V [G]
              do if color[u] = WHITE
                        then DFS VISIT (u)
    DFS_VISIT (u)
   color [u] ← GRAY
                                 {White vertex u has just been discovered}
2 time \leftarrow time + 1
   discovery time[u] \leftarrow time
   for each v ∈ Adj[u]
              do if color [v] = WHITE
5
6
                        then predecessor[v] \leftarrow u
                              DFS_VISIT (v)
   color [u] \leftarrow BLACK {Exploration of u finished}
   finishing time[u] \leftarrow time \leftarrow time + 1
```



















































