```
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 \in 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] ← time
   for each v \in Adj[u] {Explore edge (u,v) }
5
             do if color [v] = WHITE
6
                       then predecessor[v] \leftarrow u
                             DFS_VISIT (v)
   color [u] \leftarrow BLACK {Blacken u; it is finished}
   finishing_time[u] \leftarrow time \leftarrow time + 1
```



























