```
DFS(G)
1 for each vertex u \in G.V
      u.color = WHITE
u.\pi = NIL
4 time = 0
5 for each vertex u \in G.V
      if u.color == WHITE
6
           DFS-VISIT(G, u)
DFS-VISIT(G, u)
                                // white vertex u has just been discovered
1 time = time + 1
2 \quad u.d = time
3 u.color = GRAY
4 for each vertex v in G.Adj[u] // explore each edge (u, v)
       if v.color == WHITE
            v.\pi = u
           DFS-VISIT(G, v)
8 time = time + 1
9 u.f = time
10 u.color = BLACK
                                // blacken u; it is finished
```