Refs: Graph Slide P.40

```
DFS(G)
for each vertex u in G.V
    u.color=WHITE
    u.pi=NIL
time=0
for each vertex u in G.V
    if u.color==WHITE
        cycle = DFS-VISIT(G,u)
        if cycle
             return TRUE
return FALSE
```

```
DFS-VISIT(G,u)
time=time+1
u.d=time
u.color=GRAY
for each v in G.Adj[u]
    if v.color==WHITE
        v.pi=u
        DFS-VISIT(G,v)
    if v.volor==GRAY
        return TRUE
u.color=BLACK
time=time+1
u.f=time
return FALSE
```