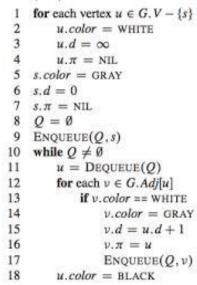
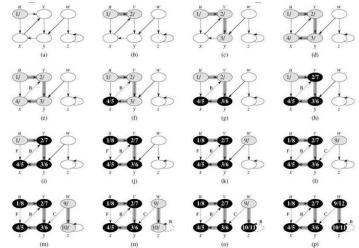


## BFS(G,s)





## DFS(G)

```
 \begin{array}{ll} 1 & \text{for each vertex } u \in G.V \\ 2 & u.color = \text{ whith} \\ 3 & u.\pi = \text{NIL} \\ 4 & time = 0 \\ 5 & \text{for each vertex } u \in G.V \\ 6 & \text{if } u.color = \text{whith} \\ 7 & \text{DFS-Visit}(G,u) \\ \end{array}
```

## DFS-VISIT(G, u)

10 u.f = time

```
\begin{array}{lll} 1 & time = time + 1 & \textit{#white vertex $u$ has just been discovered} \\ 2 & \textit{u.d} = time \\ 3 & \textit{u.color} = GRAY \\ 4 & \text{for each $v \in G.Ad/[u]$} & \textit{#explore edge $(u,v)$} \\ 5 & & \text{if $v.color} = \text{white} \\ 6 & & \textit{v.$\pi = u$} \\ 7 & & DFS-VISIT$($G,v)$ \\ 8 & \textit{u.color} = BLACK & \textit{#blacken $u$; it is finished} \\ 9 & time = time + 1 \end{array}
```