

CONNECTED-COMPONENTS(G)

```
1  for each vertex  $v \in G.V$ 
2      MAKE-SET( $v$ )
3  for each edge  $(u, v) \in G.E$ 
4      if FIND-SET( $u$ )  $\neq$  FIND-SET( $v$ )
5          UNION( $u, v$ )
```

SAME-COMPONENT(u, v)

```
1  if FIND-SET( $u$ ) == FIND-SET( $v$ )
2      return TRUE
3  else return FALSE
```