

Feb 28

BFS(G, s) // G is in adj. list format

0.  $cc[s] \leftarrow T$  and  $cc[u] \leftarrow F \quad \forall u \neq s \in V$
1.  $i \leftarrow 0$
2.  $L_0 \leftarrow \{s\}$
3. While  $L_i \neq \emptyset$   
    3.1  $L_{i+1} \leftarrow \{ \}$   
    3.2 for all  $u$  in  $L_i$   
        for  $(v, w)$  in  $E$   
            if  $cc[w] = F$       test of equality  
                 $cc[w] \leftarrow T$   
                add  $w$  to  $L_{i+1}$   
    3.3  $i++$
4. Return  $cc$