

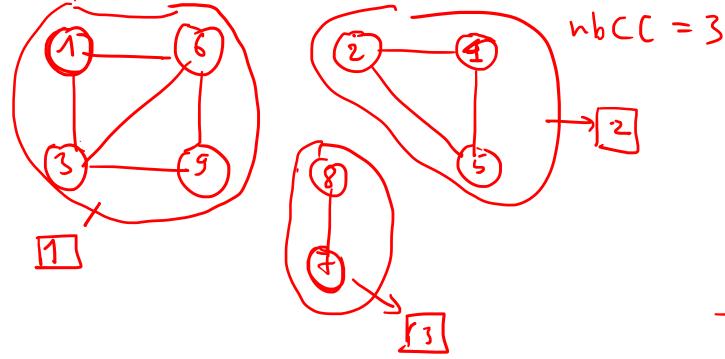
Dis the vien vector de the' luin D/S lû. vector(int) A[N]://A[v]: list can dish se ké vir ve. struct Edge int mod; / to other endpoint int weight; // they 58.

vector (Edge) A[N];

Nich hoa 1: lâp truh liêr læ cac connected component

(+hat, phán-lién thán;

one do thi vo lies)



$$CC[1] = 1$$
 $CC[3] = 1$
 $CC[2] = 2$ $CC[4] = 2$
 $CC[7] = CC[8] = 3$

$$\frac{DFS(1) \rightarrow nbCC = 1}{cc[3] = cc[4] = cc[9]}$$

$$= nbCC = 1.$$

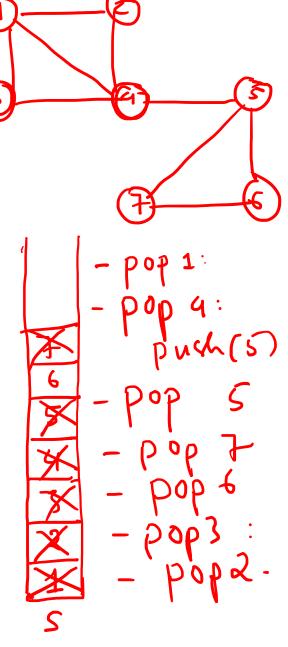
DFS(2),
$$nbC(=nbC(+1=1t1=2)$$

 $visit 4/5 \Rightarrow cc[4]=cc[5]$
 $visit 4/5 \Rightarrow cc[4]=cc[5]$

$$DFS(7) \rightarrow nbC(=nbCC+1=2+1=3)$$

 $cc[7]=cc[8]=nb(C=3)$

// use stack -DFS(1) S. pugh(u); visited[u]=True; cc[u]=nbCC; while 5 not empty do S. Dob(); [S. push(x); visited x = True;



Dujet theo chien rong BFS(u) => Ding Anene. -- level 0 --- level 1 -- - level 2 -(3) - -(-) - ... level S Duget theo this tri dieta -> sont A[v] theo this tri toy dan.

BFS(u) [Oppush(u); visited[u]= True; level[u]=0; uhile Q not empty do for x ∈ A[v] do ig not visited[x] then Q.push(x); Lisited[x]=True; Level[x]= level[v]+1

