· 學例 記録 time stamp - discovery time: u.d finishing time: u.f

· fo BFS不同 > 阿有 vertex 皆含走訪

4 (u,v) + E

· edge Ž # state: O. tree edge : V. color = white

@ forward edge: v.color = black A u.d < v.d = u.d < v.d < v.f < u.f

D. back edge : V.color = gray

@ cross edge : v.color = black A v.d < u.d = v.d < v.f < u.d < u.f

·若 u 為 v 之 ancestor:[v.d, v.f] ⊆ [u.d, u.f] = 判断 ancestor 方式

B: vd < u.d < u.f < v.f

o. the connected component

" Initialization_ graph (G)

a. s=0

3. for each ue G.V

用s区別component

if u.color == white

DFS_ visit (G. u)

S = S+1

在DFS_vivit(G_u)中将每个走訪點更對為5之值

⇒ DFS forest 中有無 back edge.

O. 判断G是否含gole = 跑DFS