Procedure Explore (G, V)

visited (v) = true

For ead edge (v,u) et

if not voted (u):

post visit-(V)

precly) = clack++

post(v) = clock+

Procedure DFS (&)

for all VEV VISited(r) = false

for all VEV:

if not visited (v):

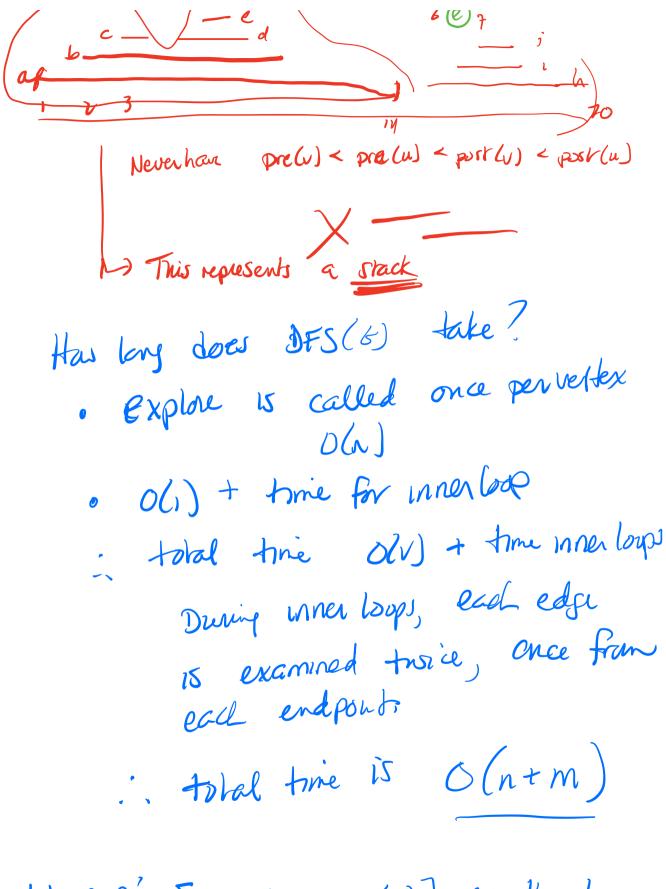
explore (6, v)

2 connected components Draw number line

> DFS Forest

(b) 9 14 | 15h 20 Tree adp. 15h 15 18

15 W 20



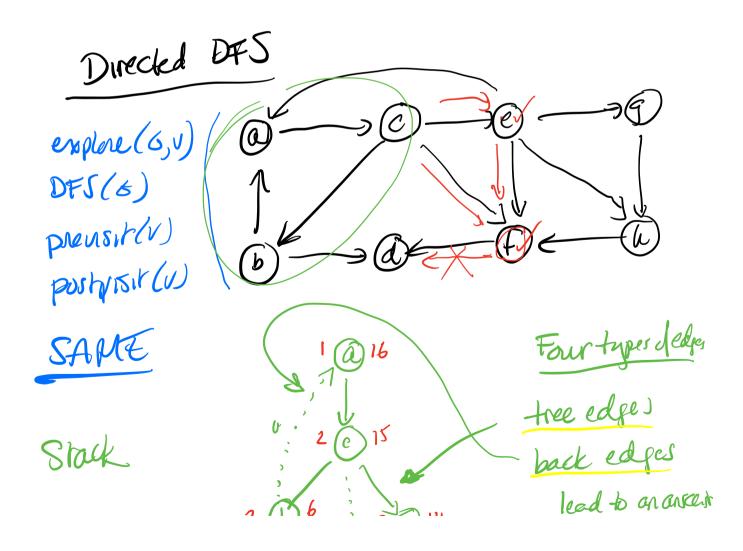
Wrapup' [pre(u), post(u)] 15 the time

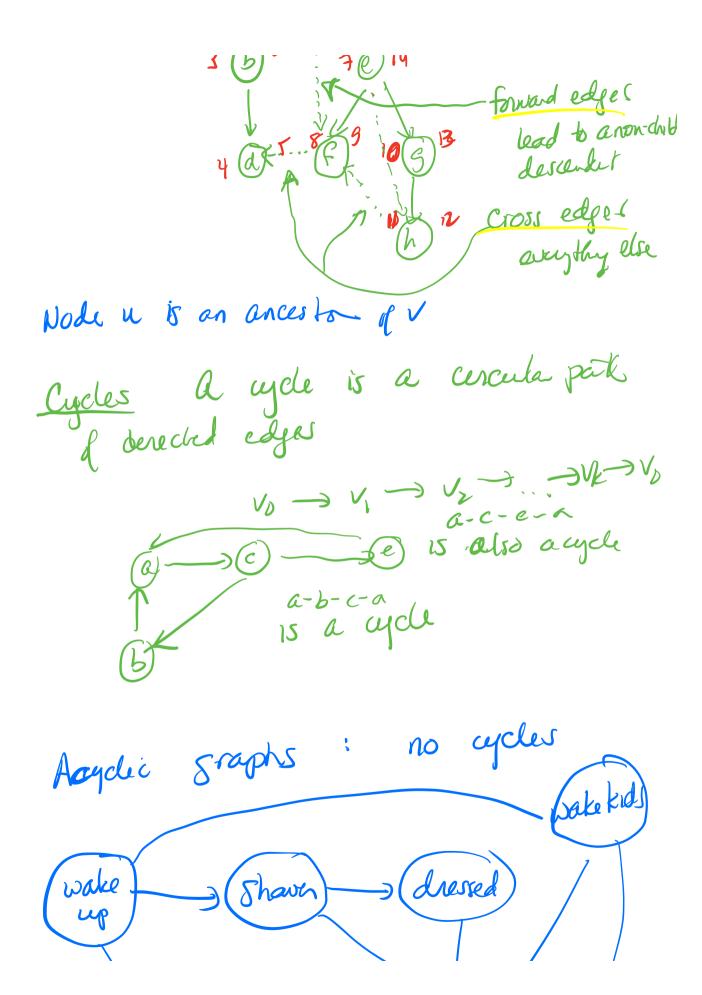
u is on the stack

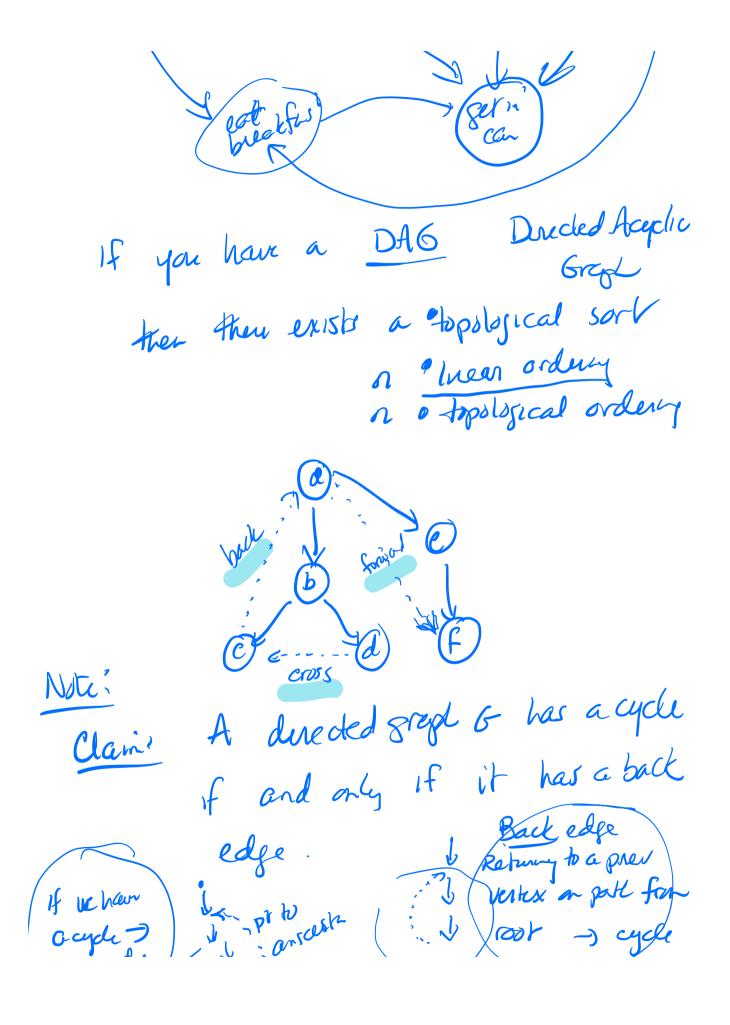
of explore for DFS when

visted (u) 15 false.

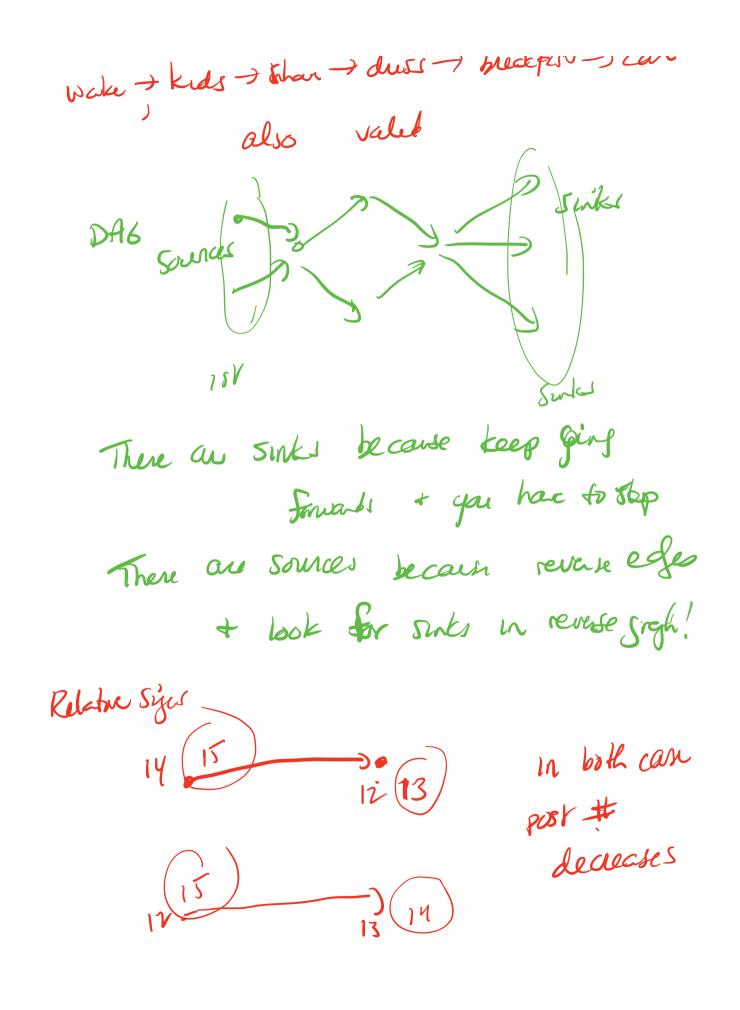
Explore (w) gives the whole compared







Run DFS + perform tasks in order & decreasing post numbers. Clain: In a DA6 every edge leads lower post number wake , shown , kids, drew , breckert, topological sort: total ordery if all graph edges left to right



output vertices in descendy post #

= timest ordering