4.11.2029

Directed Acyclic Graphs: Directed graphs

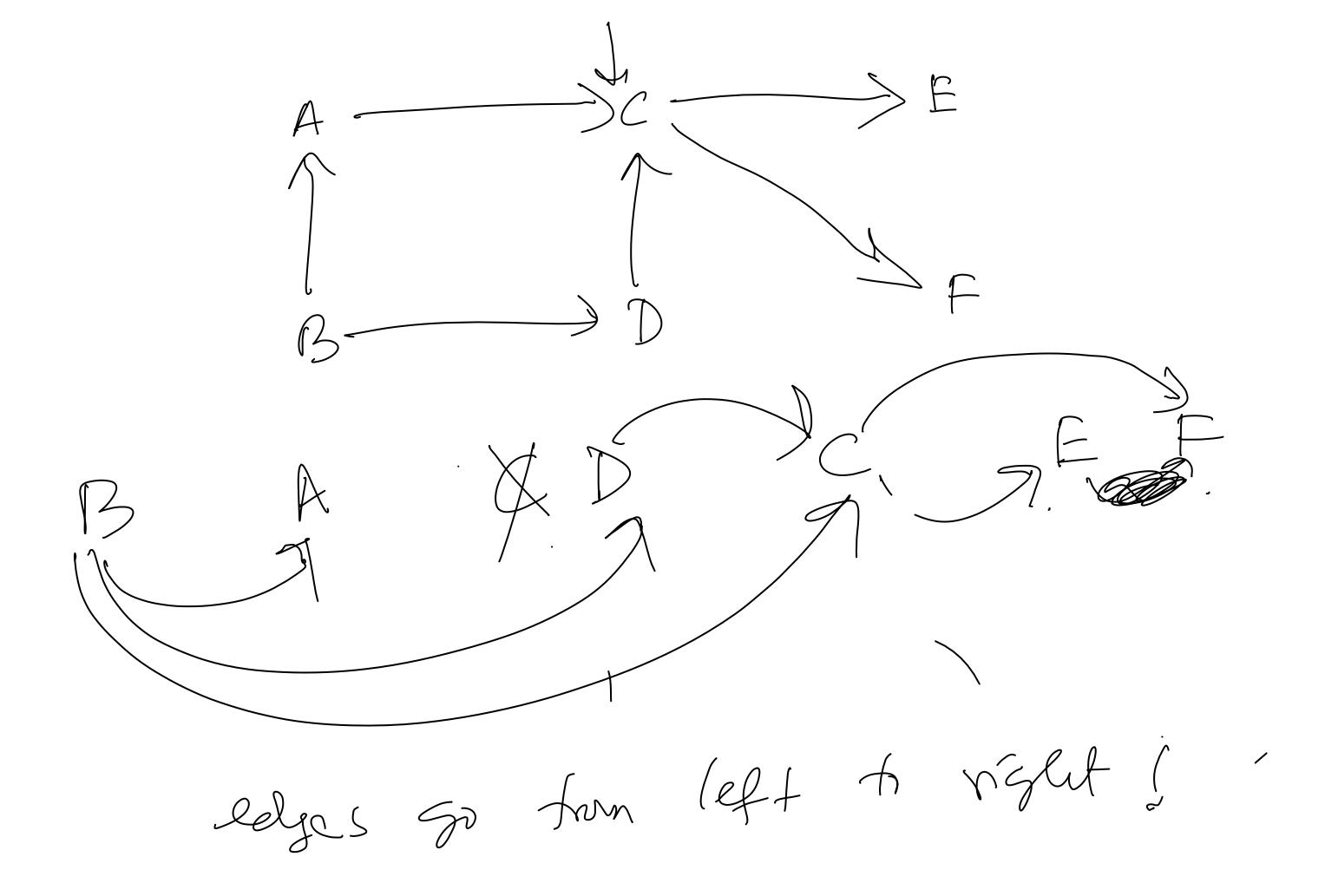
a cycle!

which does it have

Example: Causal: Cloud (407.) rain By rain cloud = 1) = 80%.
Pr (rain | cloud=0) = 05%. Respirated = 1 (Jord=1)
Respirated = 1 (Jord=1)
Respirated = 1 (Jord=1)
Respirated = 1 (Jord=1) ynswok. 90.1 6

Chample. Panl-SWYL Socks V08/ Parkal Order snapping not pissible. Suns jing is jossible.

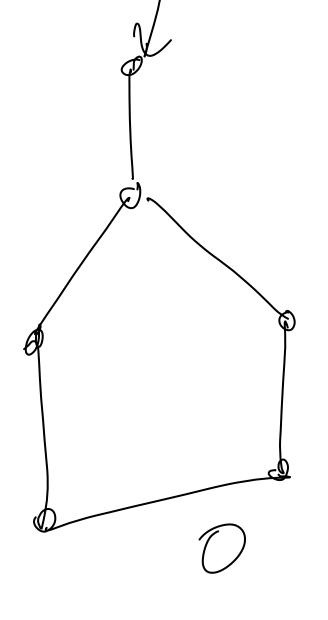
Example = Course A -) course B mems preservisite! A set of conner that helds to be covered . Can we do an ist a valid orderny? Given a DAG we can always sort it in a manner so that edges always go reft to roght! (Topological sont Topo, sont)

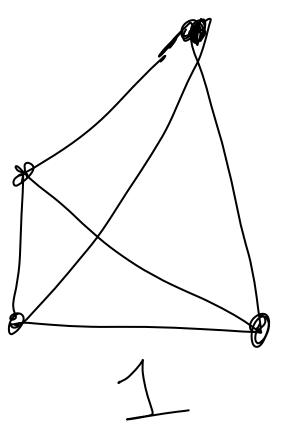


free elys The vertex having highest thish to will always be a some mode.

If we soft the nextres true to low, that will be a rated Apolytical Sort (onest frush. in fully high fine

CVSS edex 65 fortor former smaller

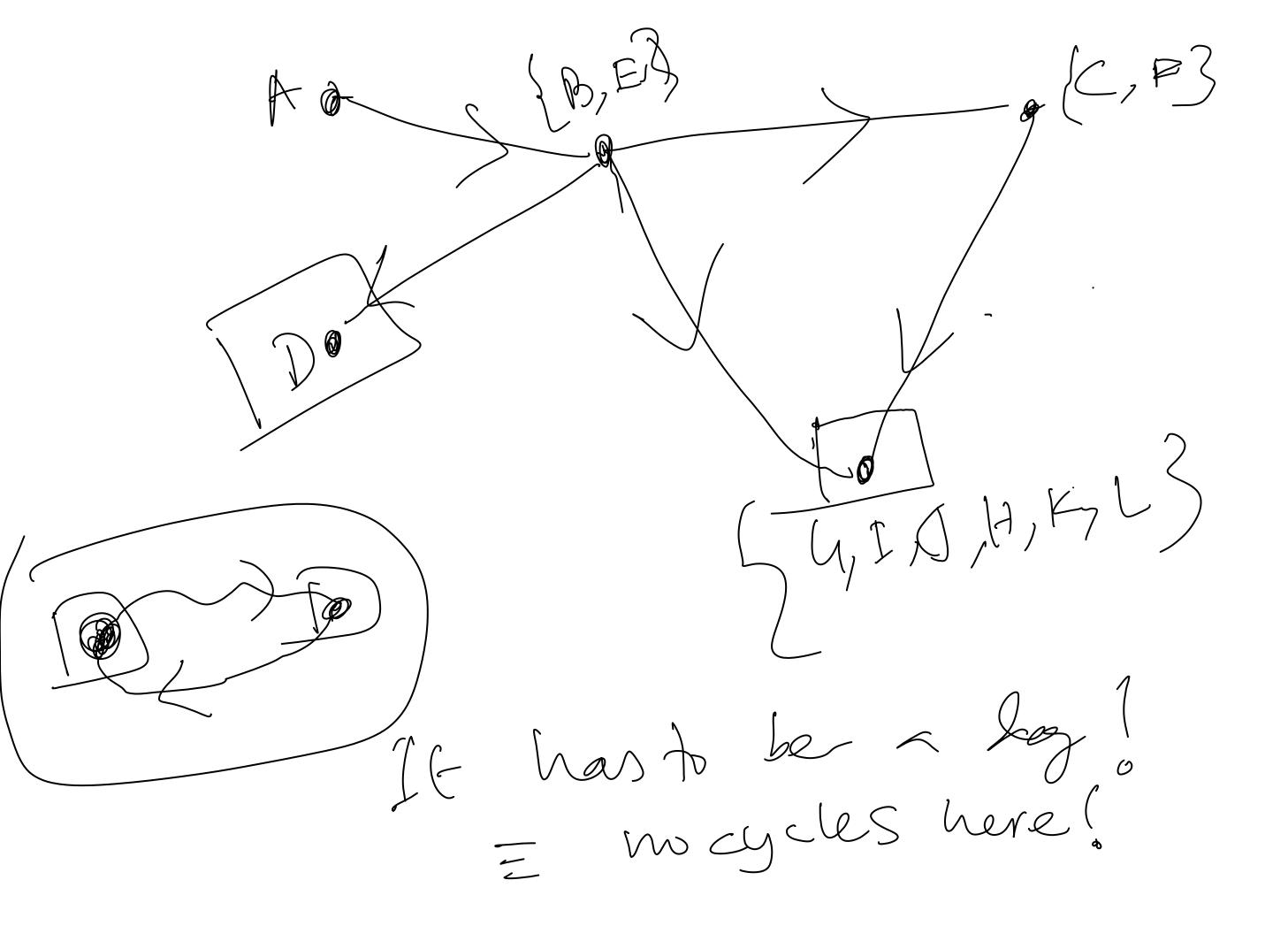




(O Wodes

O(MHE) Styl # component = 2

She compare compare G_1I_1J Ul Warrectal TWF SnK Convert are not connected Component! (B, E) we connected.



Fact: 2Hs lasy to ful a source mode using DFS but to not a sink mode.

Cornollary: If we neverse the graph.,

the last kinsh time. will be

part of a sink connected component.

reves e of grands

(1). Revene the gren graph G to gel-on graph G.K. perform DFS on GR & sort from Wight to low thish the. Short DF.S naw dry to above Sorking Order