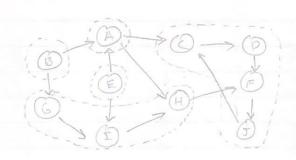
Horwork 7-3.3, 43.4 3) Source ! A, B Sints! G, H B, A, C, E, D, E, H, G could charge could charge 3) With the traversal by alphabetical order rule, there is only one ordering. If we discourt this rule, we have 3 places when the ordering change; BBA, E4D, and H&G. If we change the ordering of these notes we get 2×2×2 possible 8 possible topographical orders of graph this

a) SSC= {C,D,FiJ3, {H,6,I3, {A}, {E3, EB}

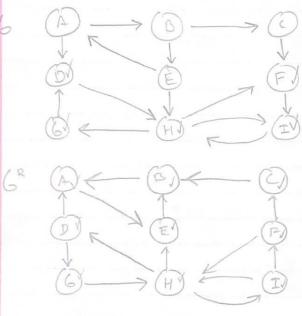
Sources: EB3, EE3 Sinks: ECIDF, J3



The Minimum # of codges would be 2. One edge to connect a source & the only sink SCC, then one other to cornect the remaining source to the other source. With 2 edges, we can eliminate all sources a sinks a make the entry graph strongly cornected.

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3,411)



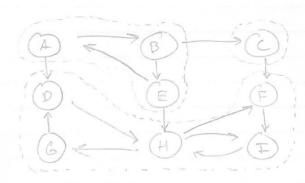
DFS(62)

A 7 C8 1 D17
2 E5
3 B4
12 H1
12 H1
13 E14

Post Order
DISIMIZIFISIA, E,B



- a) SCC= ED, H, G, F, I3, EC3, EA, B, E3
  - Sources: { A, B, E} Sinks: { P, H, G, F, I}



With one edge correcting the SIAK 38C to the Source SSC, the entire graph will become corrected as there will be no Birk or source SSC'S left in it.