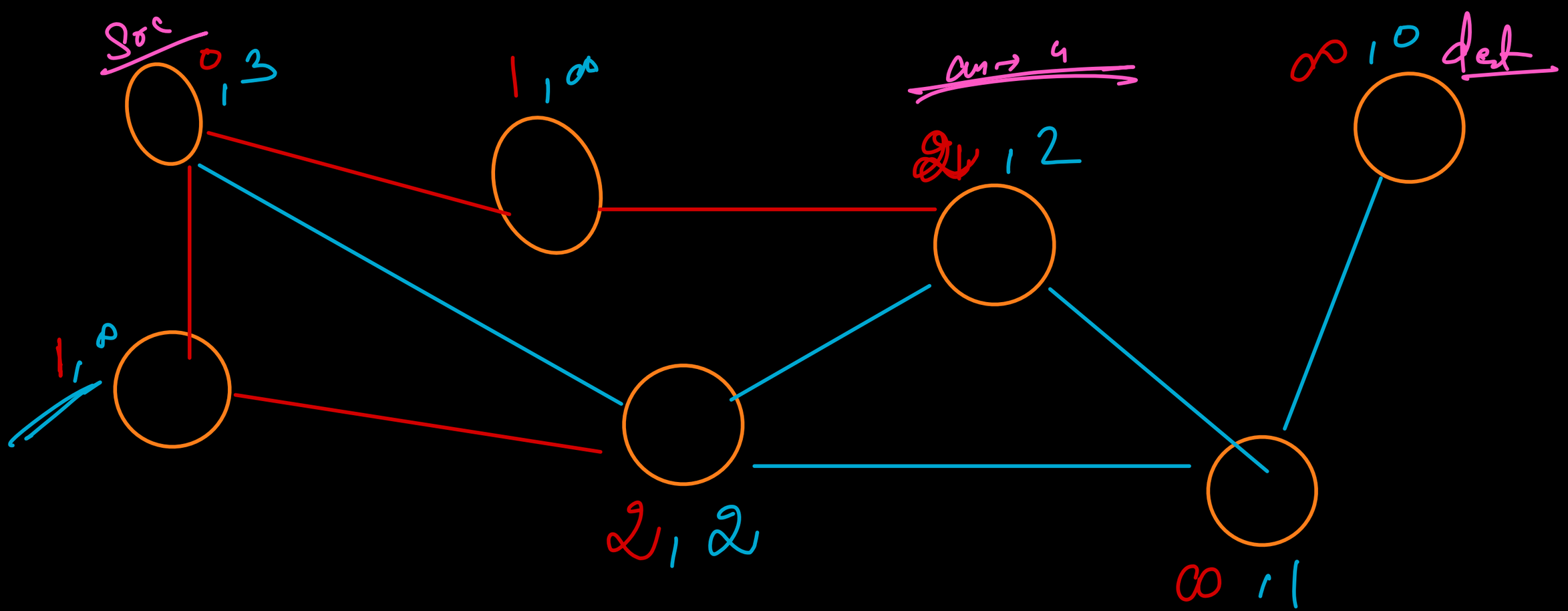
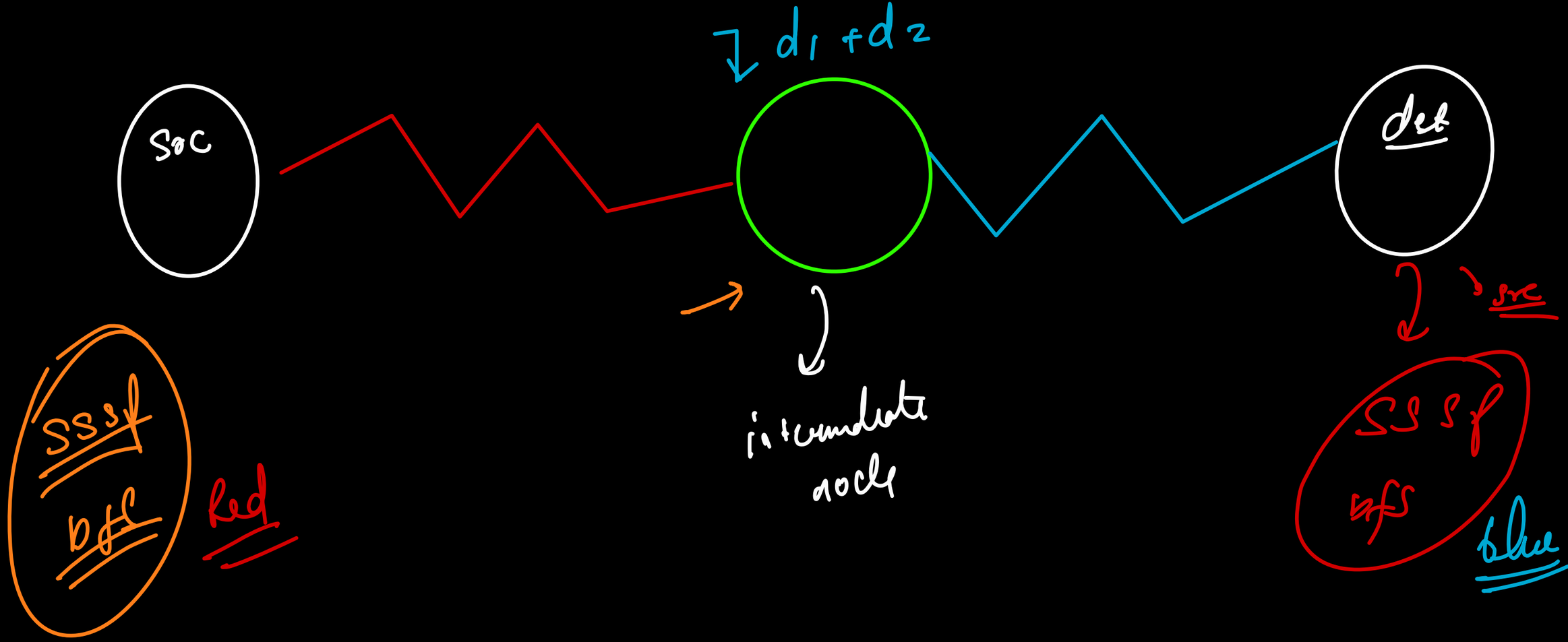
Q) You're given an undirected an unweighted graph, with a src & dest node. Every edge has a color either Red or Blue. find the shortest path btw src and dest such that

(1) the path always starts from a Red edge & ends at a blue edge.

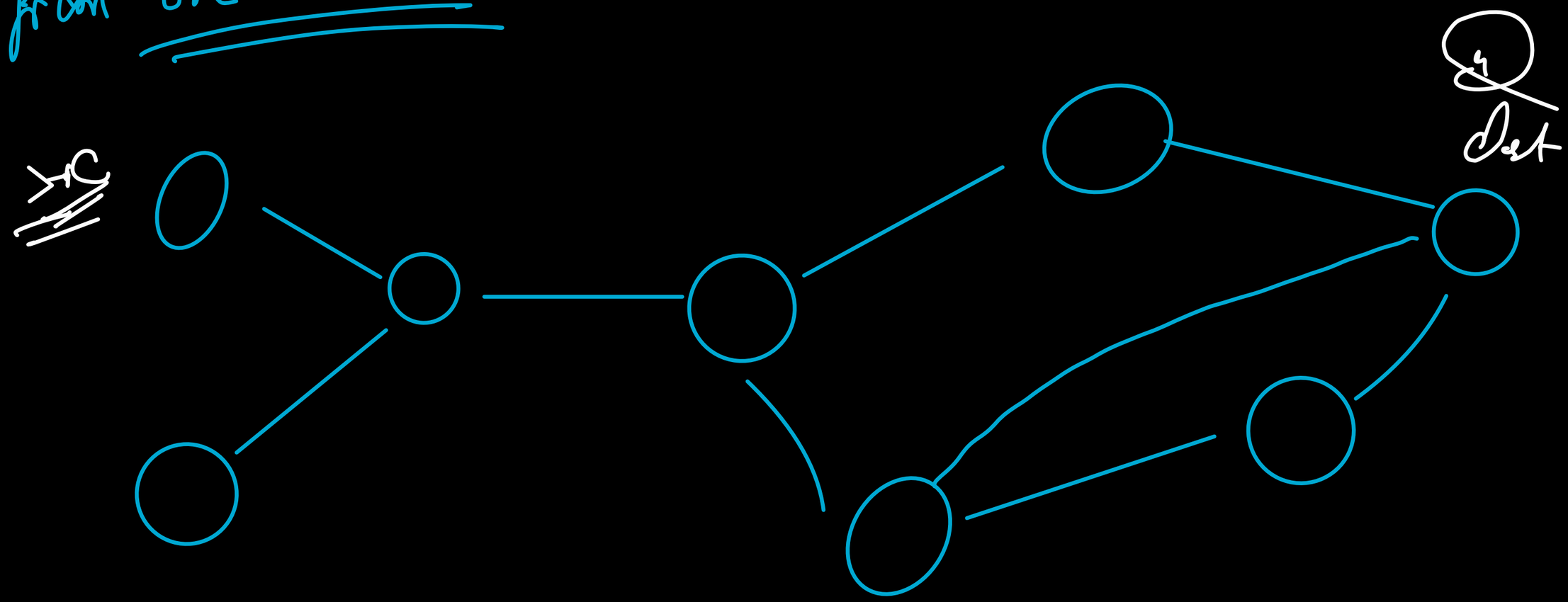
(2) You can shift from Red edge to blue only once.

(3) There are no self loops or multiple edges.





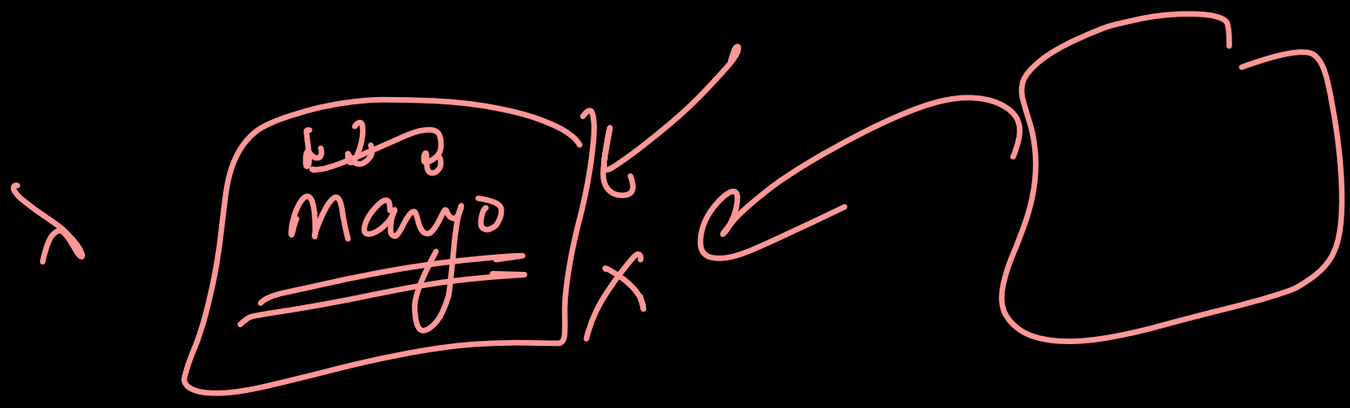
Q: Given an undirected, unweighted graph, a src & dest. Find all nodes which lie in atleast one shortest path from src to dest.



JOIN THE DARKSIDE

↳ whenever we need to read a dictionary order
⇒ the letters within a word don't tell us much about the order.

→ [a d b c] , [d a b c]



ex → [wxqkj, whqg, cckgh, cdxg, cdxdt, cdht, ktgxt, ktgch, ktdw, ktdc, dqw, dmc, dmg]

$w \to c$

$c \to k$

$k \to j$

$x \to h$

$c \to d$

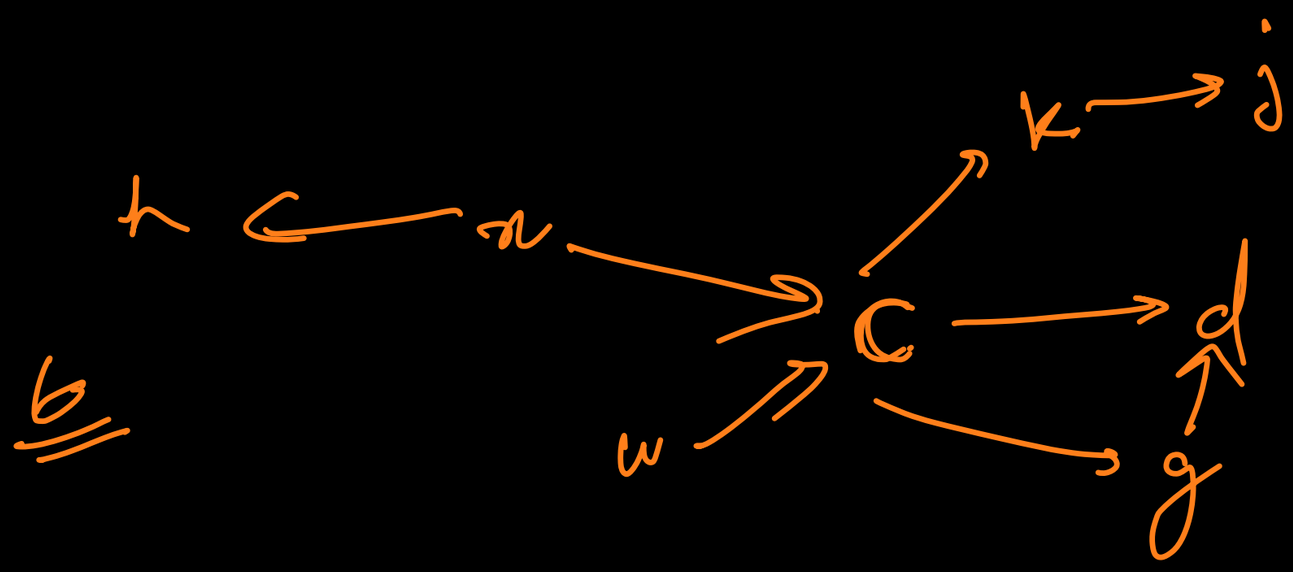
$g \to d$

$x \to h$

$x \to c$

$q \to m$

$c \to g$



Lpo

b

$q \to m$