

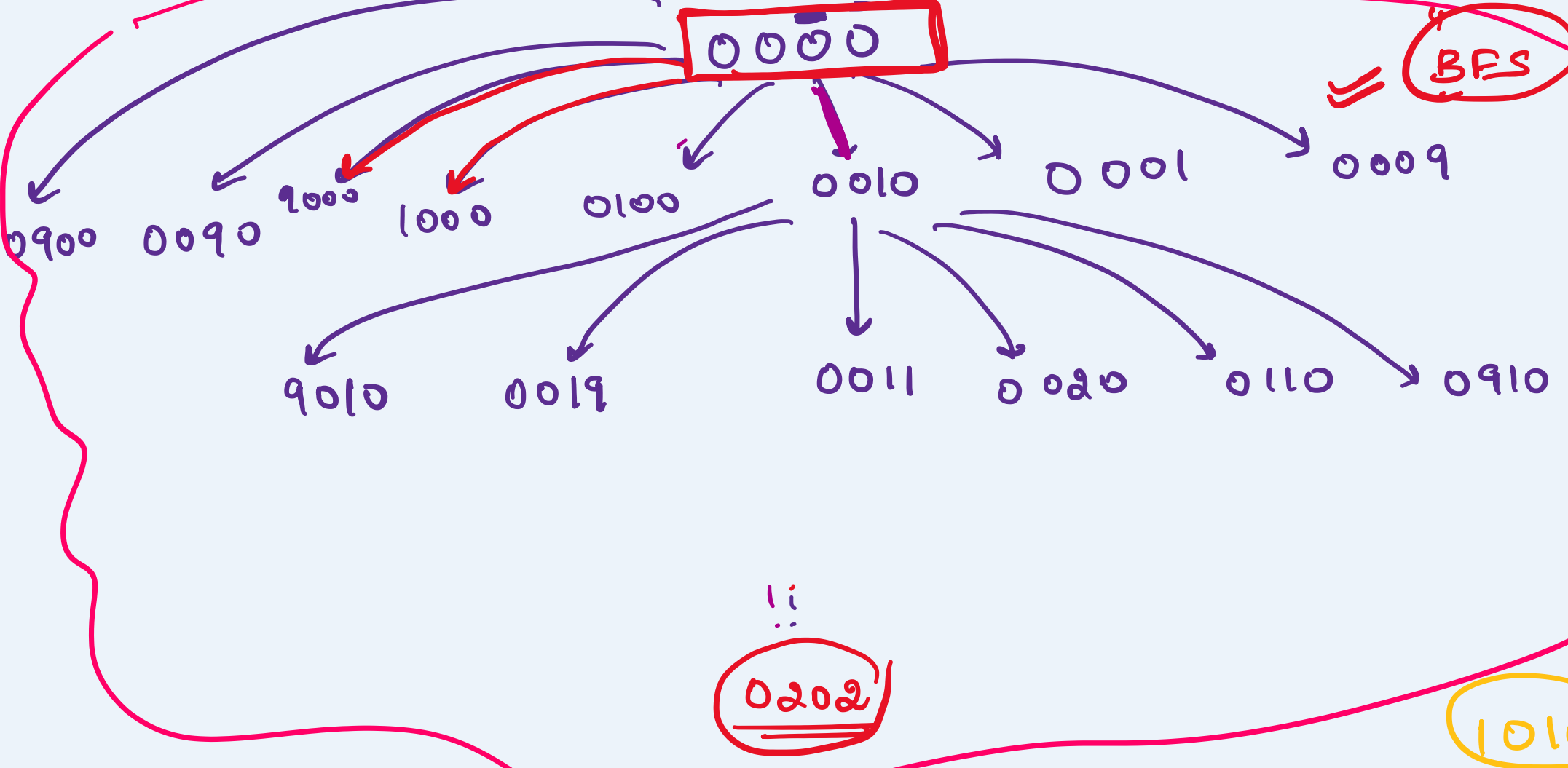
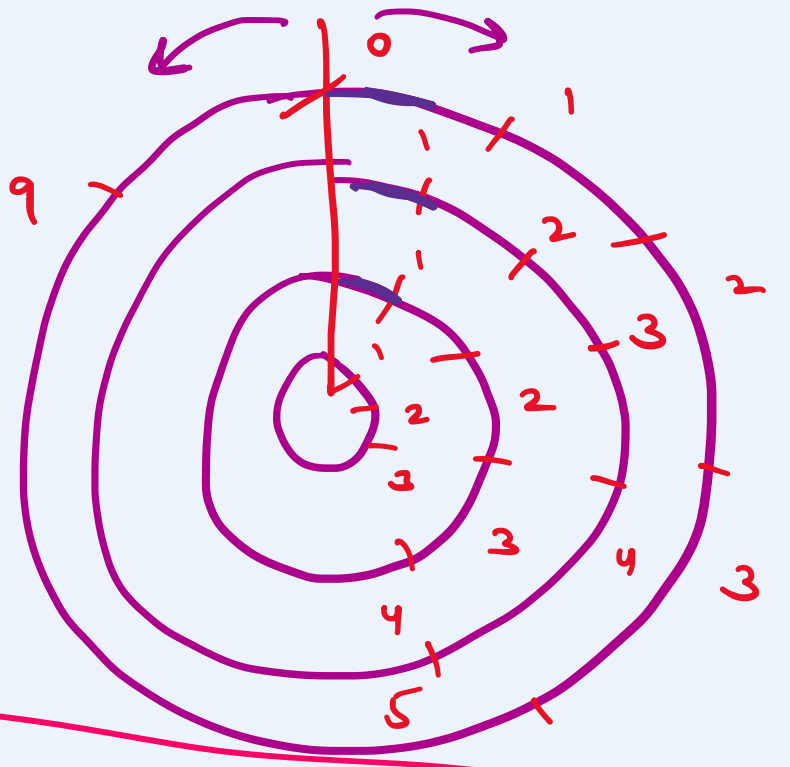
Q open the lock

10 slots $\rightarrow 0, \dots, 9$

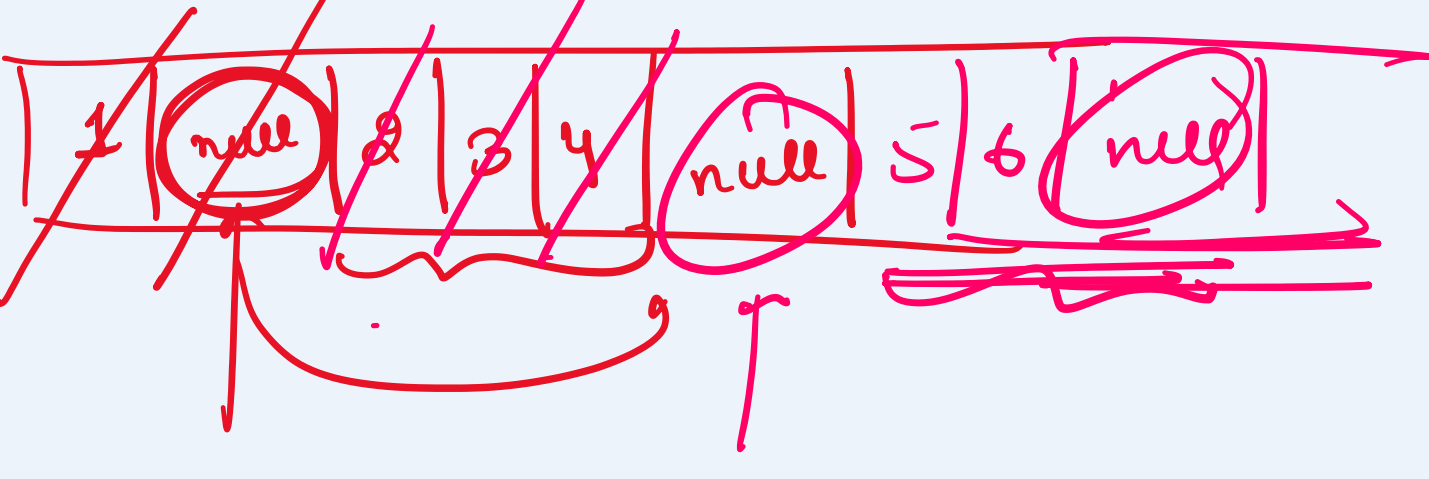
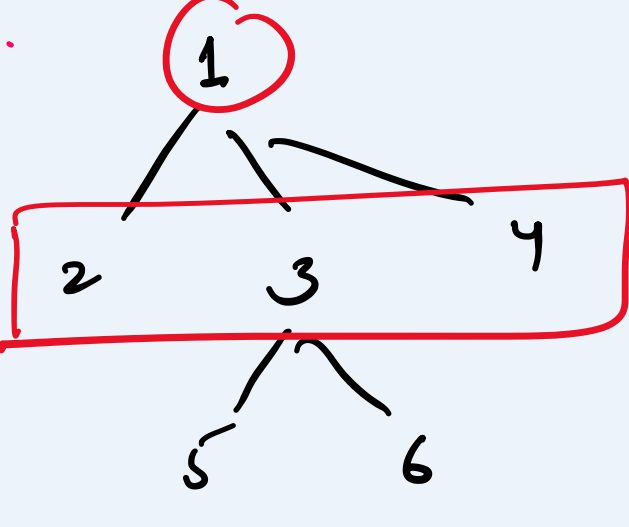
Initially $\rightarrow 0000$

target $\rightarrow 0202$

min no. of turns

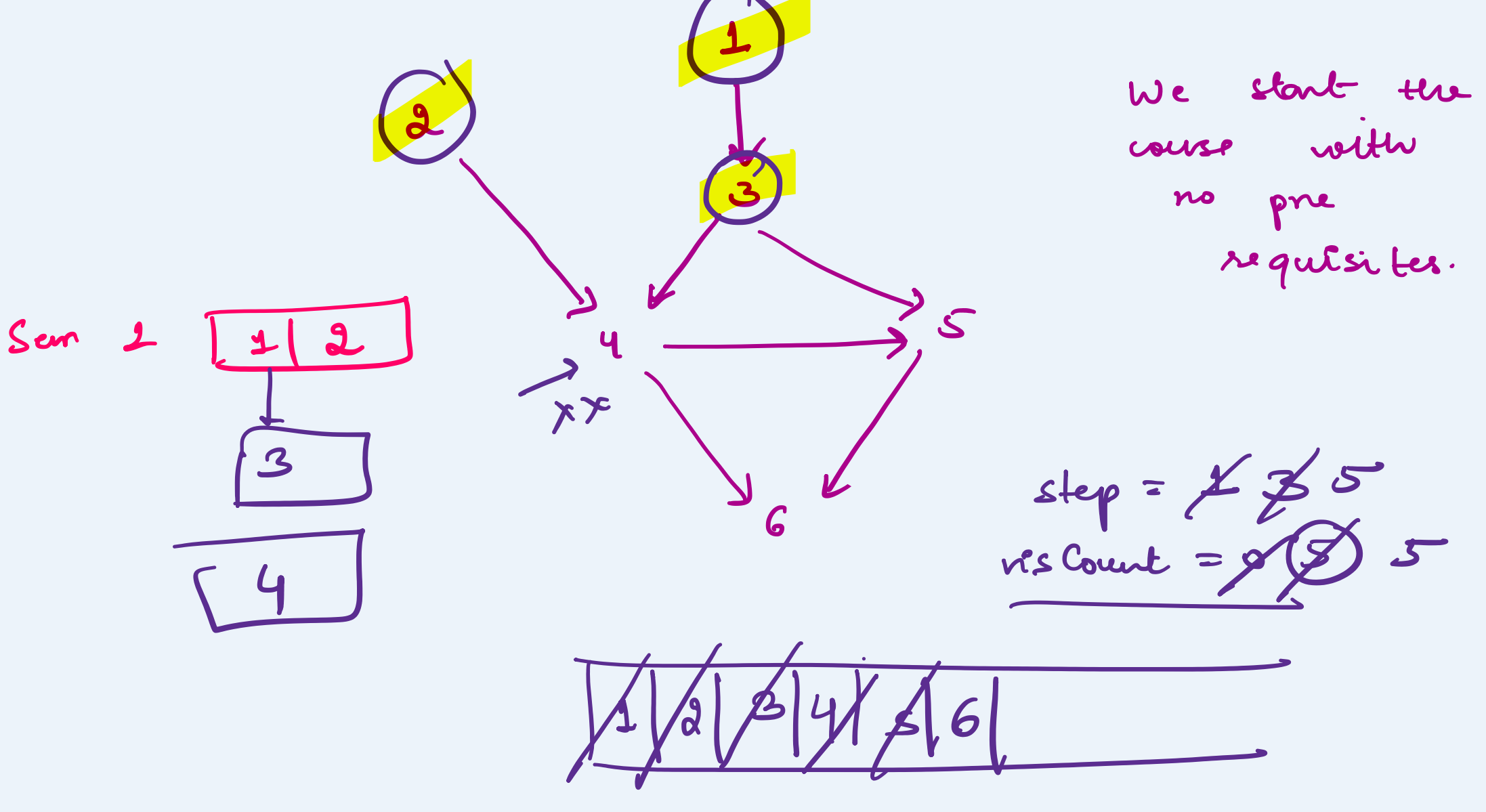


deadends $\times \times \times$
 $= [0201, 0101, \dots]$

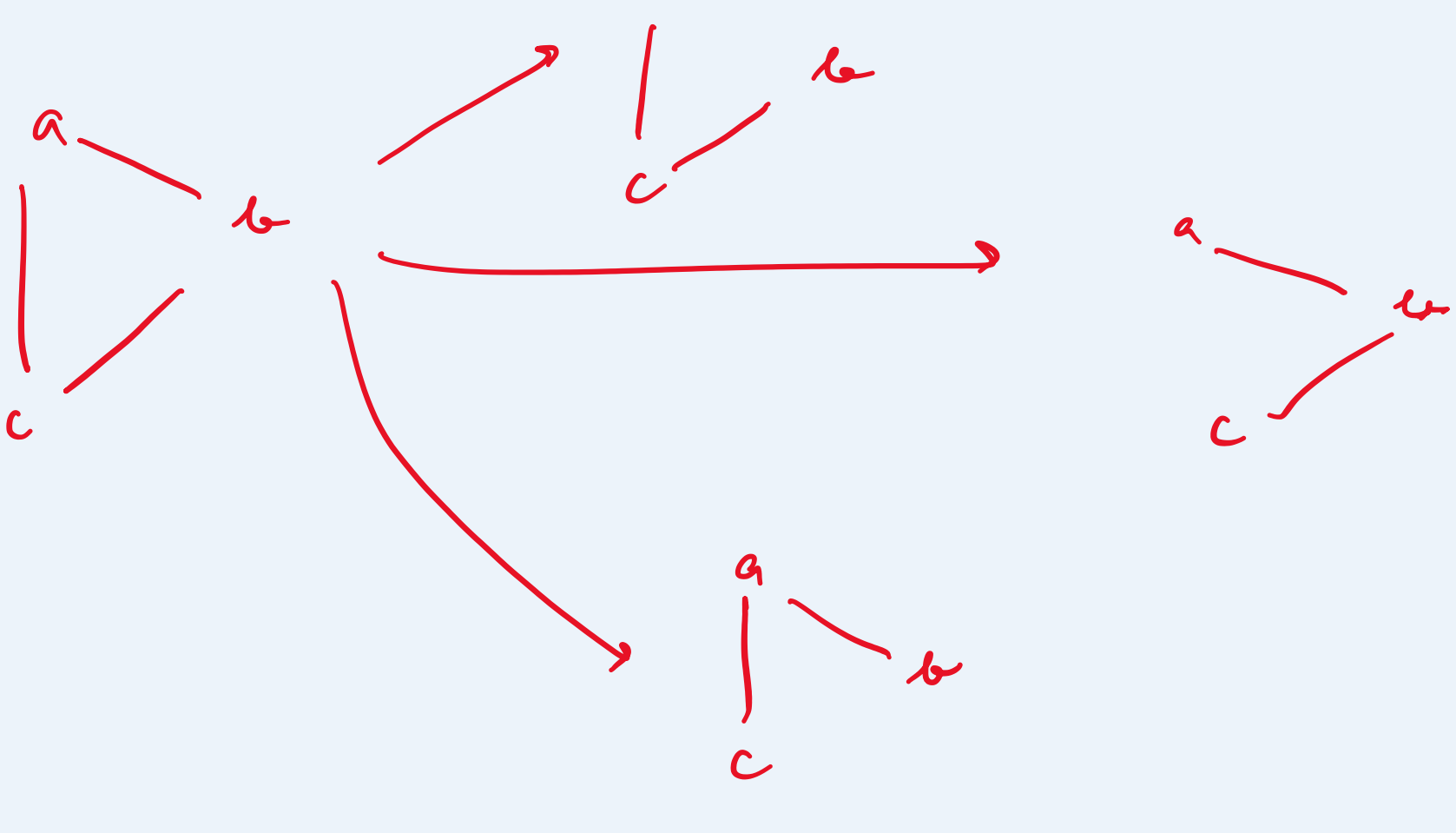
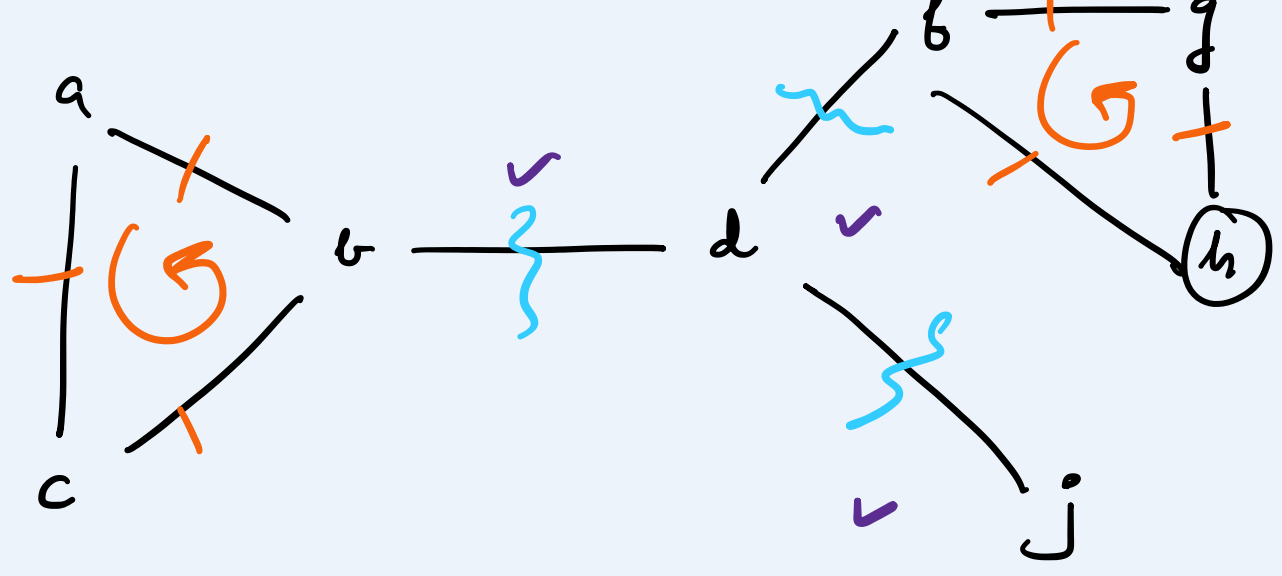
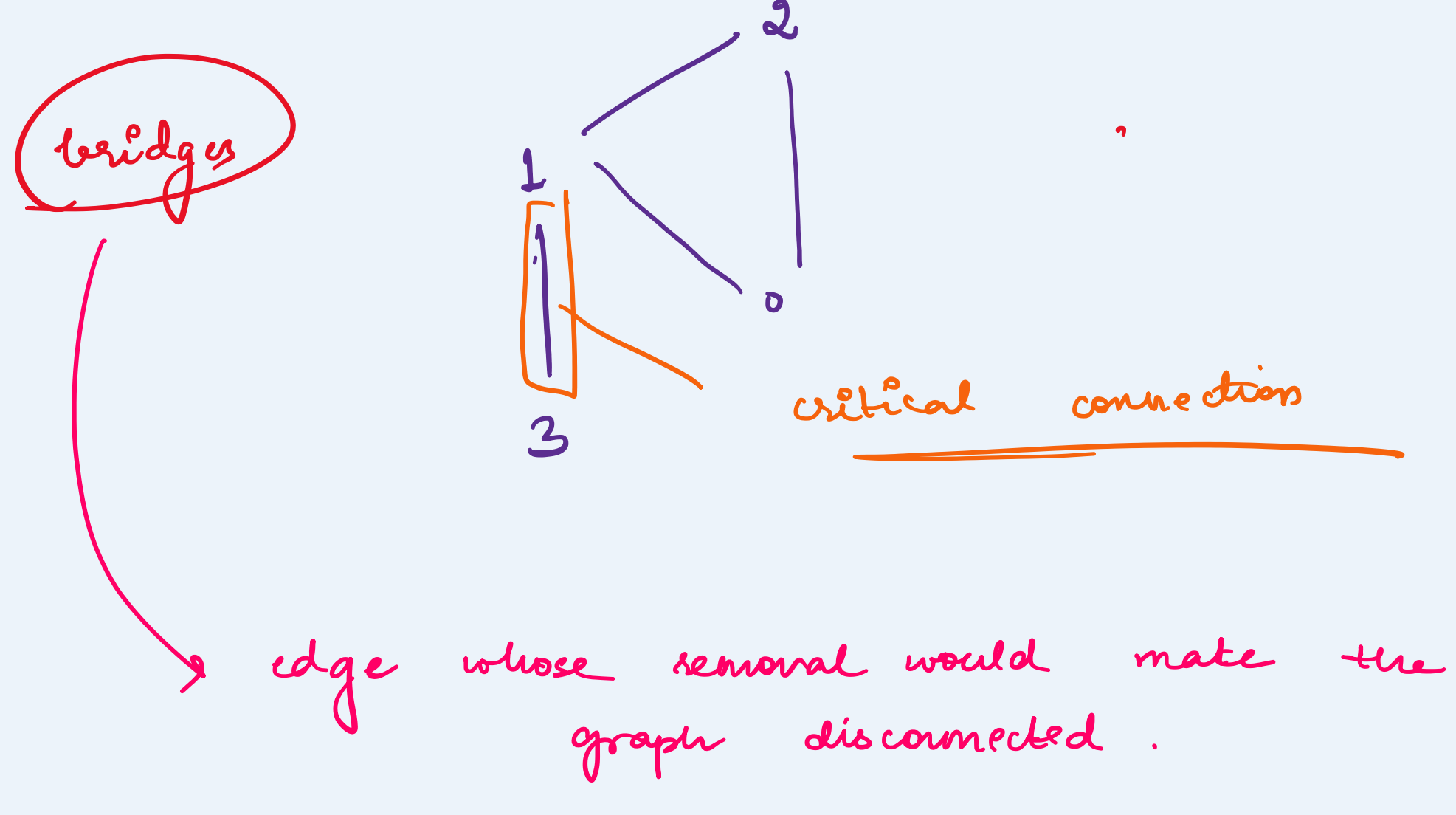


Q Parallel courses

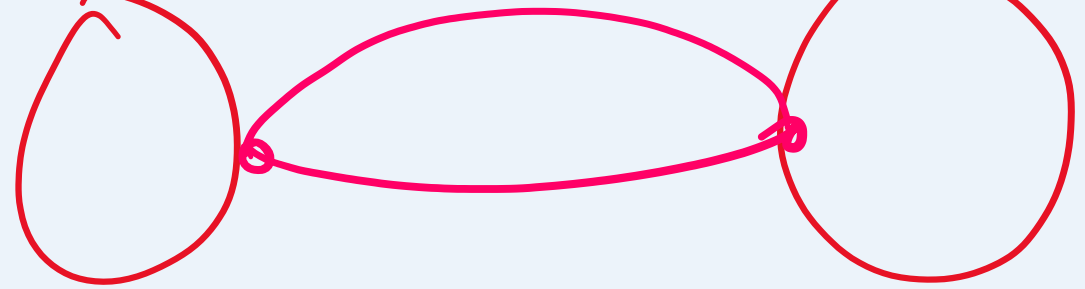
(directed graph problem)



Q Critical connections in a network



An edge is a critical connection if & only if it is not in a cycle.



Q Min cost to make at least one valid path in the grid (HW)