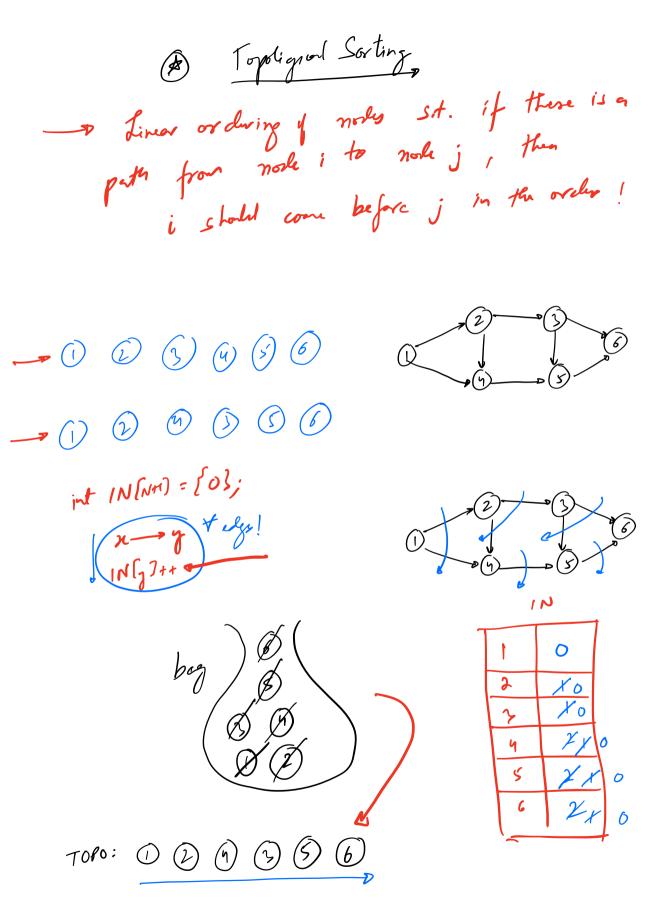
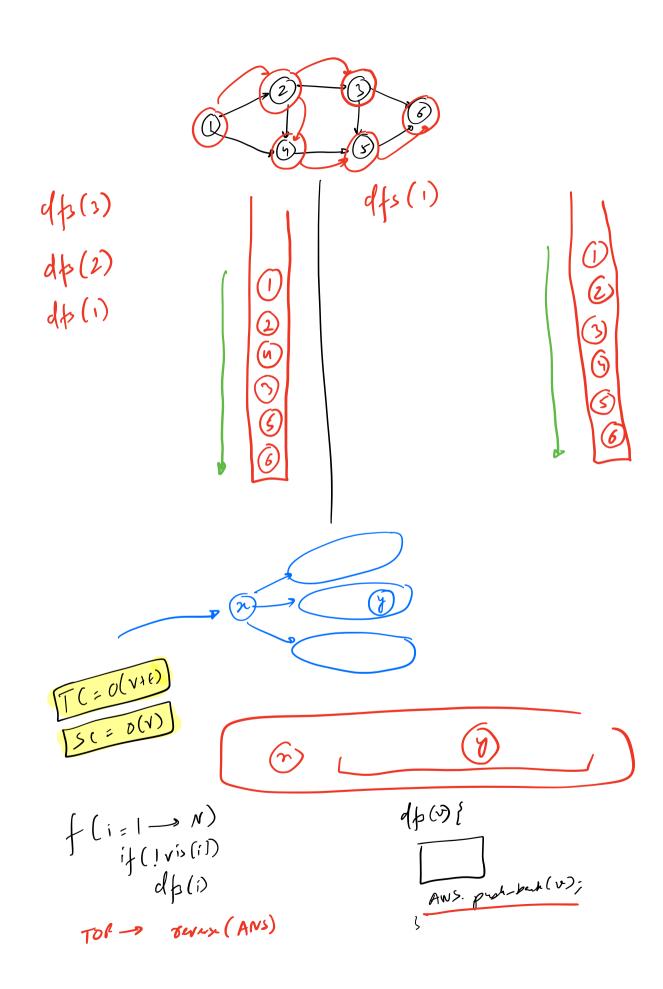
I Given the state of a map often were blow I of P. Initially it was all I. Pattasked & occupied some orgion. I is a peaceful country, so it will take back only that land which is completely surrounded by I. Find the state of the map often I takes book the bad.

dfs() TC= 0(V+E) + 0(NM) T(=0(NM) SC: O(V) : if a cellis X S(= O(NM)) 2) stack => itio risital Givan N dependent jobs. Find of the orde in which you can perform then job. A is days on B B, A 6 3 3 0 0 6 5 9 5 0



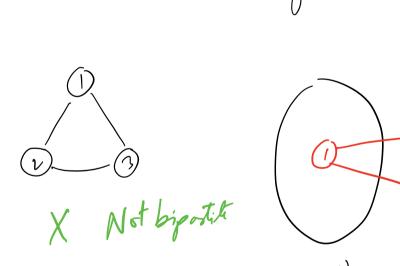


Biportik grouph,

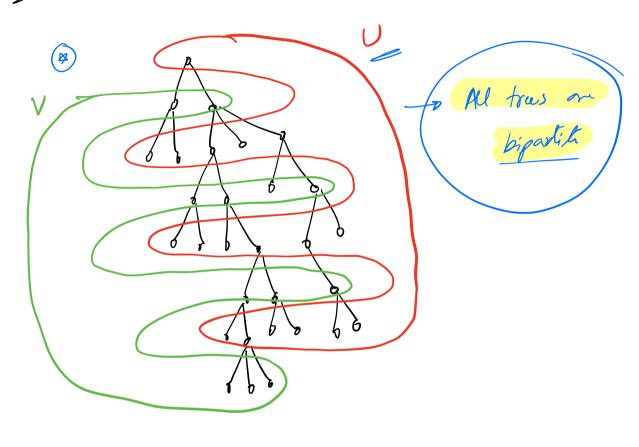
A grouph which can be broken drun into 2 lisjoint

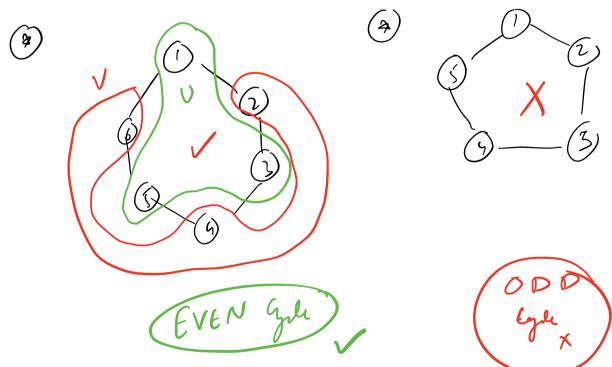
Solo u kv s.t. no 2 nooks in U or no 2 nooks

in V have an edge by them!



given a goaph, check if it is biportiste!





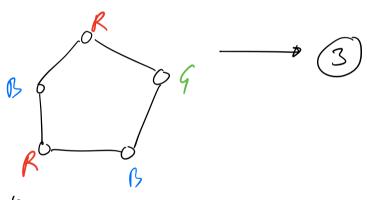
All even la gle one bipatit

Graph Coloring

(hromatic no:

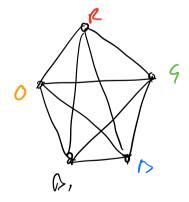
Min no. of colors ray'd to color a graph

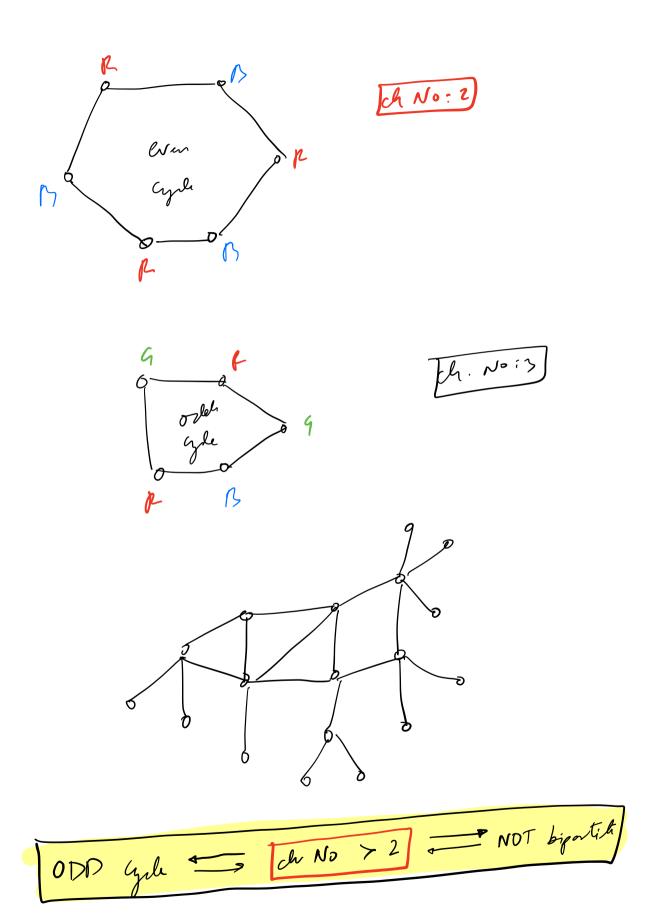
S.t. no 2 adjacent north, have the same color!

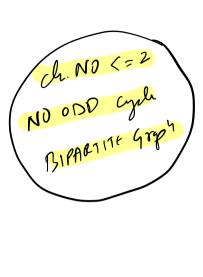


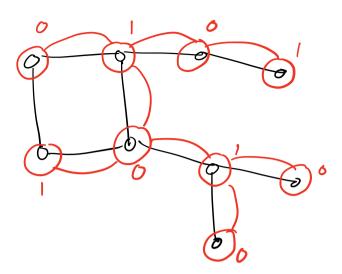
fully Connected graph

Ch. no: V

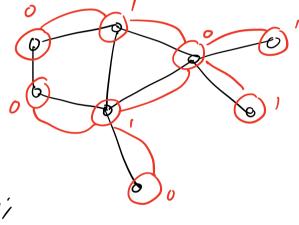








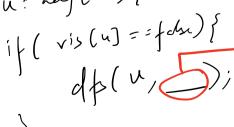
ch. No 72 ODD yell NOT bipatith

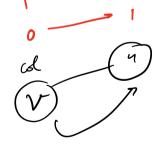


int C[N] = {-13; bod vis (N) = {folh };

bool ok = tru;
void of (v, col) {

f(u: rely(v)) {





1 cd 1 - cd

TC = O(V+E) SC = O(V)

MAP COLOFING

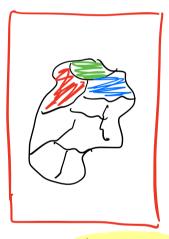
ATLAS

>

~1800

1852

< 4 csrs



> broth: Augustus - de - morgan

