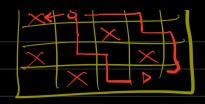


bobl cycle = is Cyclic (u, v); if (cycle == +sne) ( retor +ne) return Jalse', 5 Why DFS & not BFS !) 2 countries motionions Matrix Ploses

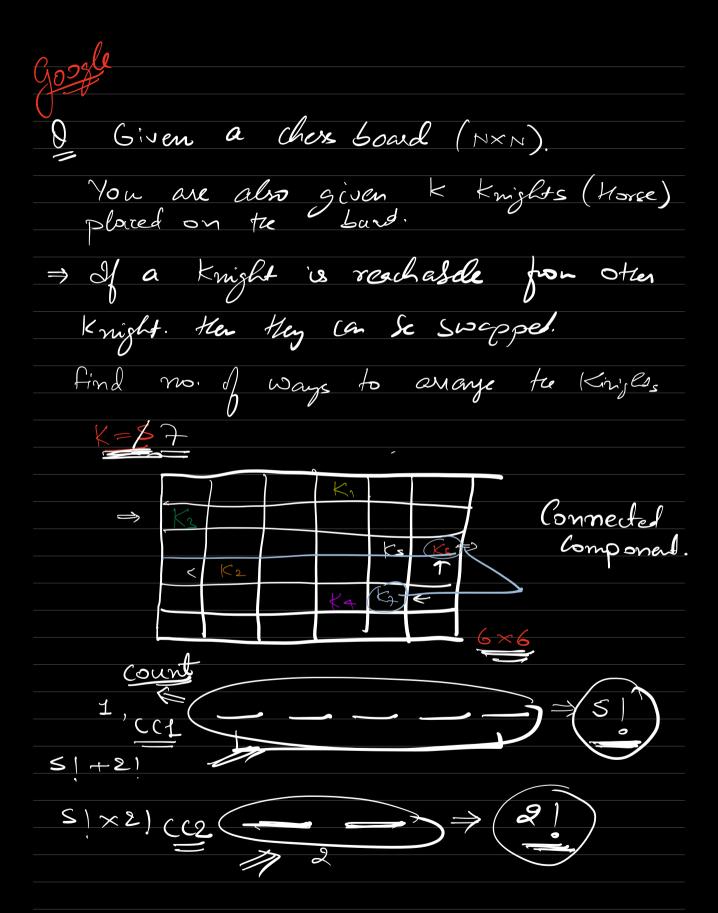


## $T.C. \Rightarrow O(3NM) \Rightarrow O(NM)$

- ⇒ Since identitying P's which we will coment back to the tie is difficult
- → We mark all the p's which we will not convert.
- → All tere regions will have attent one node present on the boundary.
- =) Iterete on the Soundary of the medric

  F from each F, start a SFS/DFS

  to mark the P's of that connected component.
- => Convert semaining Pa to I's.



Sol Find the count of elements of E maltiply the value of fectorial of Pseudo Code ans = 1(i=0, i< N, i++) { i ( M[i][j] == 'I<' & 8 cout = offs ( Missiji); ans = ans x (cout) Movements (i=2,j=1) (i-2,j+1)(i-1,)-2) - (i-1) $\Rightarrow \begin{bmatrix} \vdots & \vdots & \vdots \end{bmatrix}$ 

$$(i+1,j-2)$$
 $(i+1,j+2)$ 
 $(i+2,j+1)$ 

Hack

Row Modifier  $\Rightarrow -2, -2, -1, -1, +1, +1, +2, +2$ Col Modifier  $\Rightarrow -1, +1, -2, +2, -2 +2, -1 +1$ 

fr(K=0), K < R. size(), K++) d temp-i = i + R[K], temp-j = j + C[K],

Check (temp-i, temp-j);

4

chelk (terpin terpi) d

if (i < 0 11 j > n-1) {

red pln ) }

if ( ) < 0 | 1 | > m-1) {

