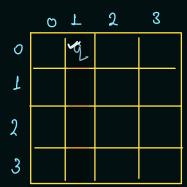
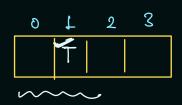


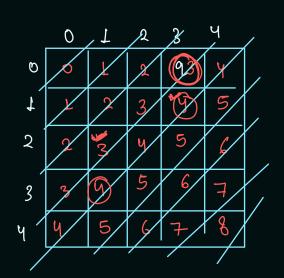


booleon [] col = new booleon [column·leyph].





2) How to Ensure Eafety of romal diagonal [from top-right to bottom left]



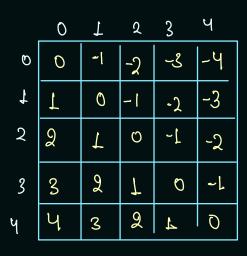
- director

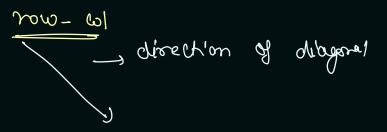
no. of diagnal: row tol

lenth of diagonal array to check suffery is 2x length - 1 = 2x5 - 1 = 9

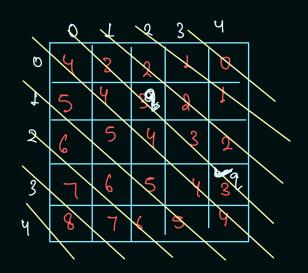








How to find proper Index
(i) (now-col)+ (length-1)



length of diagonal & 2x length of = 2x5-1=9

O	7	2	3	ų	2	6	٦	8

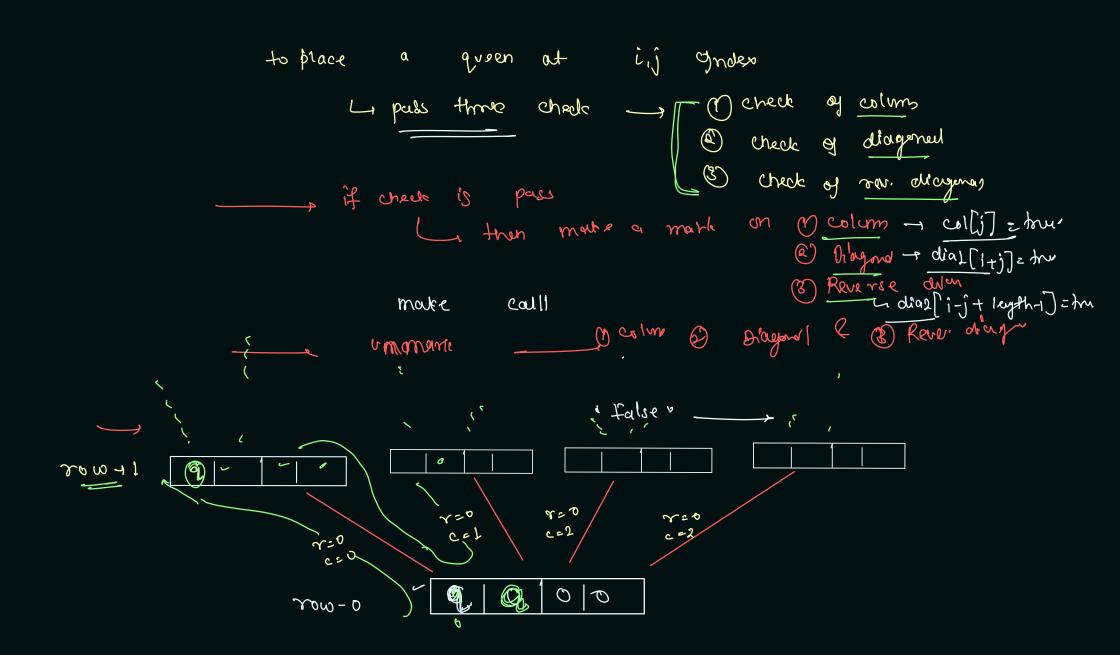
(1,2)

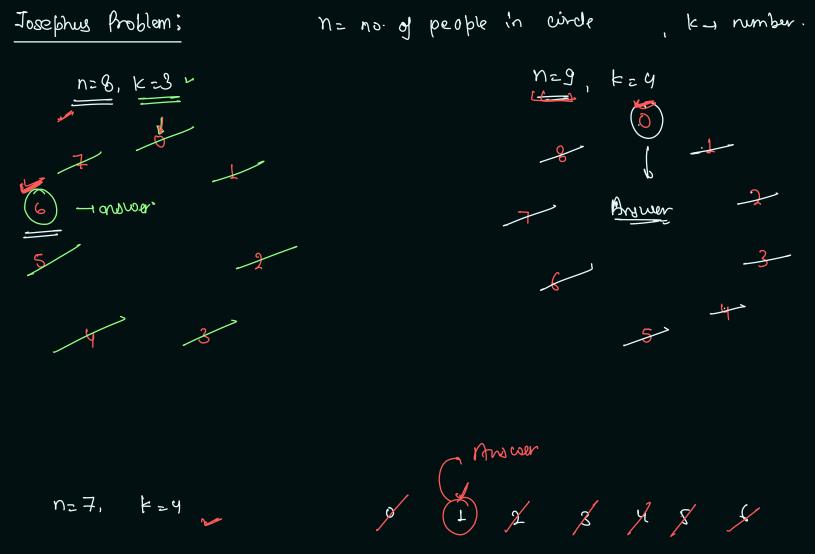
Alev. along Indic (row-col) +

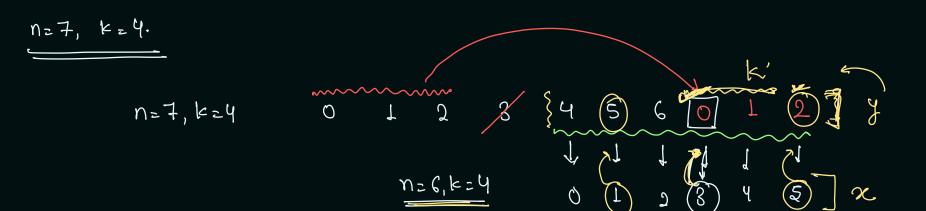
(kytt-1)

= (1-2) +

(5-1)





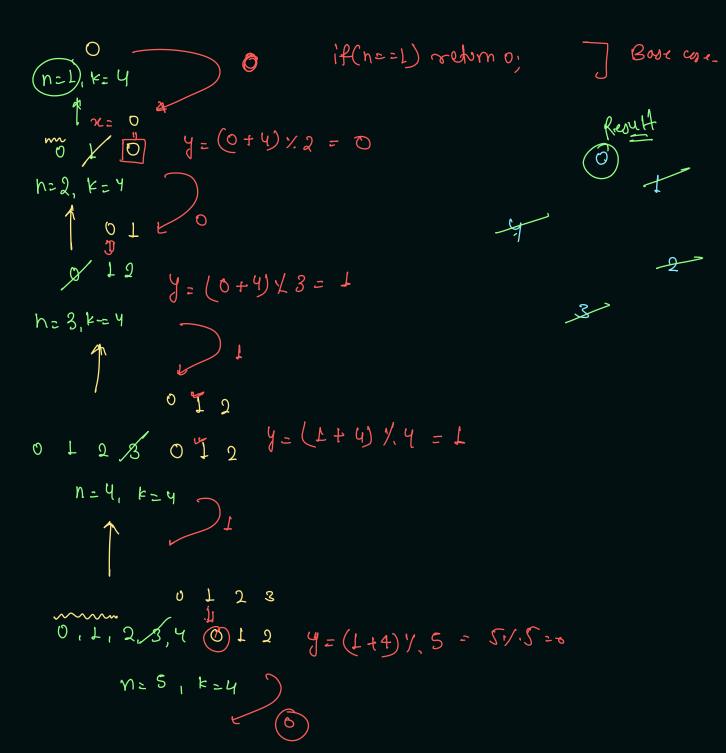


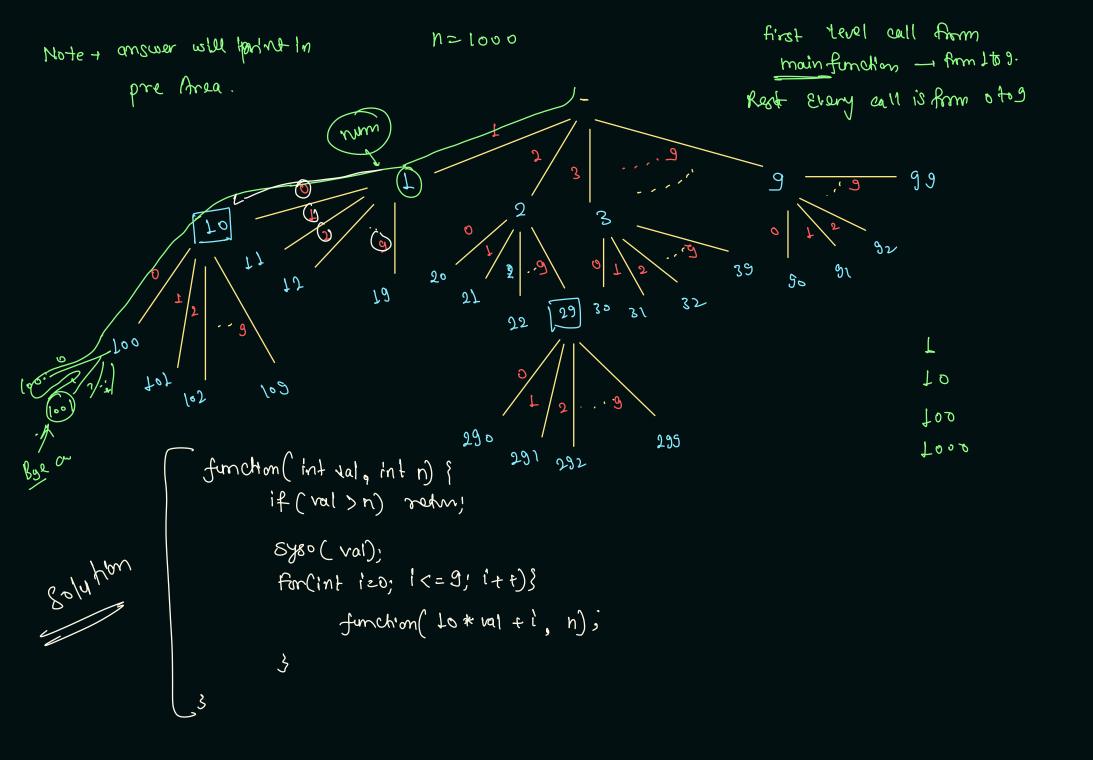
$$\frac{2^{2}}{3^{2}} = \frac{3^{2}}{3^{2}} = \frac{3^{2}}{3^{2}} = \frac{7^{2}}{3^{2}} = \frac{7^{2}}{3^{2}} = \frac{1}{3^{2}} = \frac{1}{3^{$$

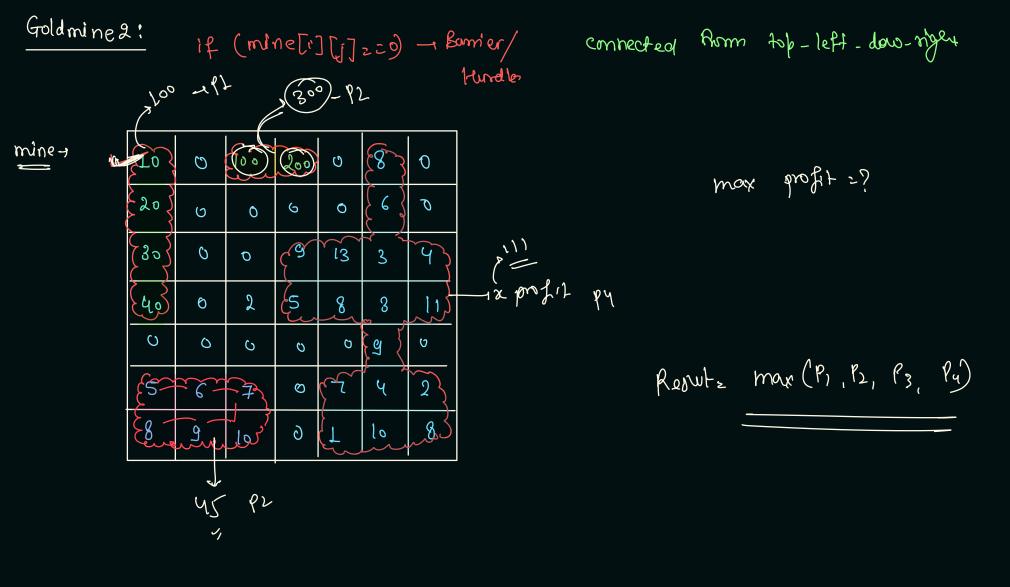
p. int fem (int n, int k) if (n = 1)rodure 0;

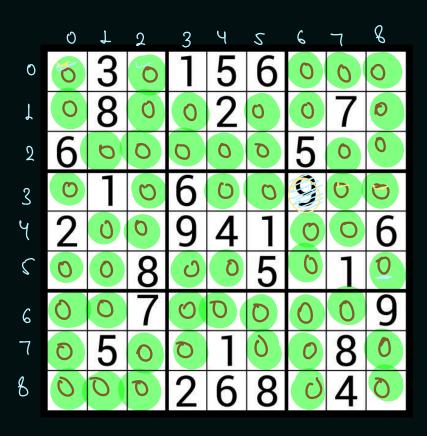
Int x: fum(n-1, 1e);

medur (x+k) y, n;









for (int r=0, r(3), r+1) {

for (int c=0; c<3) c+t) }

int ii = r+rr;

int jj = c+cc;

if (bd[ii][jj] == hum) return |2alv

number will no Repeat in (1) some Row
(2) some col
(3) some sub mothx

Safety! \rightarrow Same Row

Same Col

Some Submath's

Starting of Submath's \rightarrow Eg \Rightarrow 5,8 $\uparrow \gamma = \gamma - \gamma /3$ 5 - 5 / 3 = 5 - 2 = 3 cc = c - c / 3 8 - 8 / 3 = 8 - 2 = 6

is Safe to place (inti, intj, int rum, int[][] board)}

// same cal | loop in Ruo

// same Row | loop in col,

// for Sub matrix

Int m= 1-1/3.

 $1n+ \frac{m}{2} = 1-11/3$ 1'N+ CC = $\hat{J}-\hat{J}1/3$

After all theck - redurn 0;



How to find cell no :

cellno= n* m+ C

20 in 10.

Array list of cell number -

Recumion on list -> 0 -1 cell no-

frad r, c Total

r= cell / col

c = cell y, col

if cell no =7

for (in) inen=1 to 5; not)

Check safet;

bu[r][c]=nu:

cull
bu[r][c]=01