Backtracking Is exploring all the path

- 1) N aueen Problem. TT (don't)
- (1) Rate in a maze = 3 -> (39)
- (ii) subset sum
- (M) 2 MONG Squer

N-Queen Problem

68. a XN worker

	Q	X	۲	×
4	×	×	(de	N.
	×	X	×	K
	ļ			

N

NXN matrics

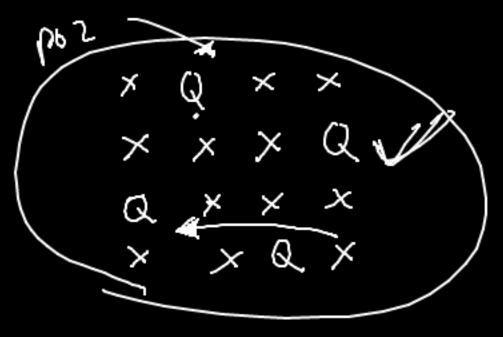
NLet in same now ←

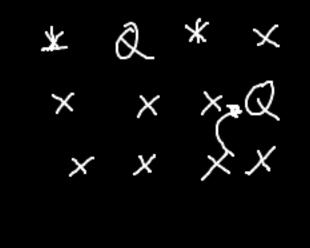
(10) Not m same colt

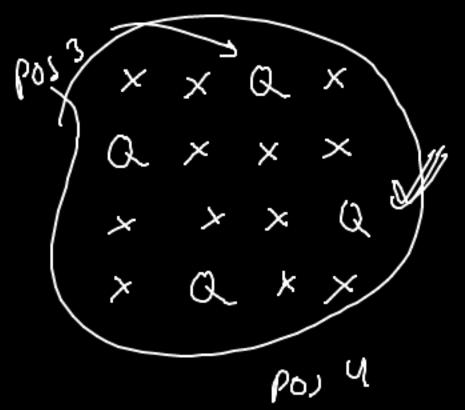
(III) Not in some diagonal.

ŀ		_		,	٦
	Q	*	\times	X	
	×	×	×	PQ	1
T	×	a <	×	×	1
ľ	\times	×	\nearrow	رير	

(K	 	У	
	X	X	X	۵۵	
ز	×	×	X	<i>×</i> ,	







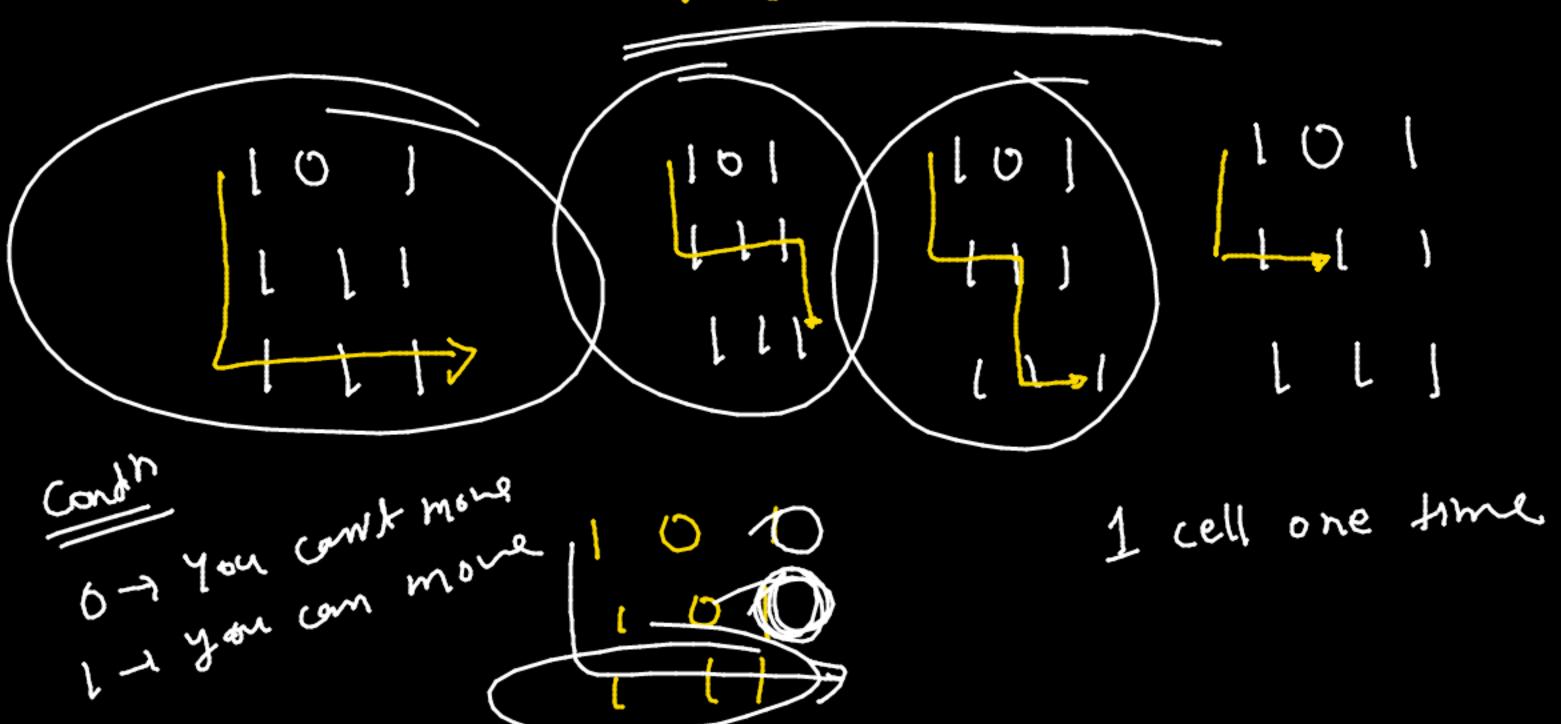
×	×	x Q x	x x Q x Q x x y x x x q		N=4 possible	path
		<i>x</i>	×Q××			

1 Not in	some		7	condn	for	placing
		Som		Queen		
		dia.				

I (las tri jaar tri , r tri) sediszogy 100d 11 checking for same w) for (Int i= row-1; i>=0; i--){ (うし) な(いり) [[(60 ald ([] [[[]] ==]) return fulse; opti brail for (1/1+j= 10-1; j>=0; j--) if (board (row] [j] == 1) return fulsk;

```
//checking for left diagrand
                                                  × × Q
for (14) = row-1, ] = col-1; i>0 88 j>0; i--, j--){
                                                 Q'XXX
L if (boald [i] [j] ==1)
                                                       (312)
           return fulse;
                                                      check ( 41)
 // checking for right diagrand
for (int i=row-1, j=colt1; i>,0 & ij<n; i--,jt+) .
                                                      (211)
     if boald (i) ti) ==1)
          return fale;
```

Rate in Maze

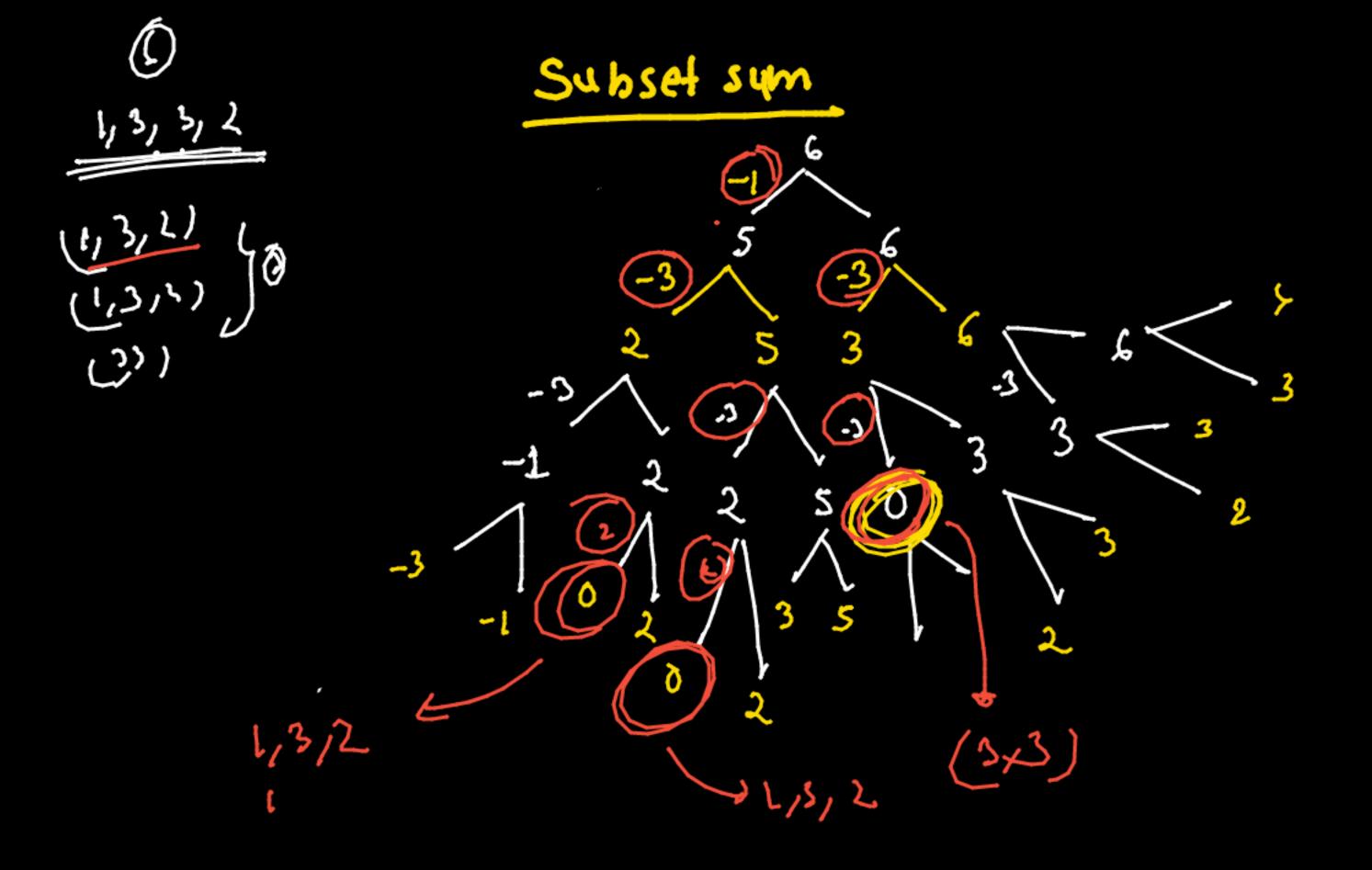


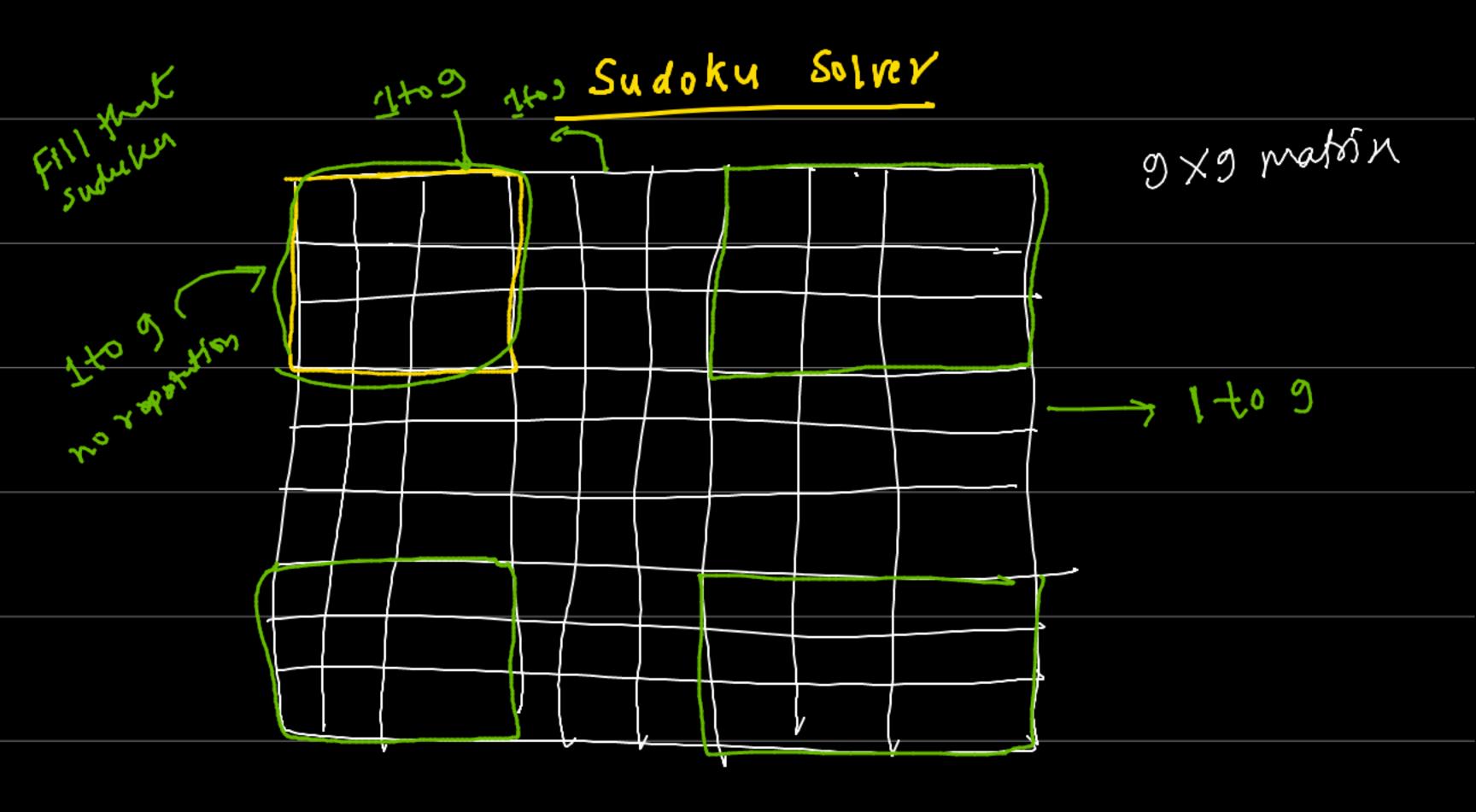
up, down left right (x-1,y) (x,y) -> m,y+1) (my) fore conditions

```
solution (18)[18] buace (13)[18]
 void rottlelpel (int n, int u, int y) {
                                              101
  if (n==n-1 dly==n-1)
                                              101
          solution [n][y]=1;
                                               111
            print (n);
          solution [n][y]=0;
           retuen;
    1/cond" for mony out of maze/board.
    if (x)n lly /n ll x< 0 ll y<0 ll boald(n) syzo
             11 solution [n][y] ==1)
       inhur
```

solution [x][y]=1; sætteljee (n-1, y). //mp rothelper (x+1, y) //down rattleffel (x, y-1);//Left rotholper (n, y+1). 11 right 10/100 [N] (y) =0;

 \odot (3) **~**3 -Include Dre Vell on time path





where o no. is there we have to 5)

Solve Judko (board) J find Empty Pos ()

ele setus tue: check and " Sill Heat ho-in cryty pos solvesuhoco

find no. which is not present in now, col and also 3 x 3 masses

(i) Not present in some col(normal)

(ii) Not present in some col(normal)

(iii) Not present in 9x7 matrix

(box)

solvesudoku (boul) { (1) End empty pos of board @ af not sind, return true; (3) If, find, struct emplose that 105 from 4 check row 100 box board [empty 1 ts] = no. silvedudako (boned); (9) Return fulses