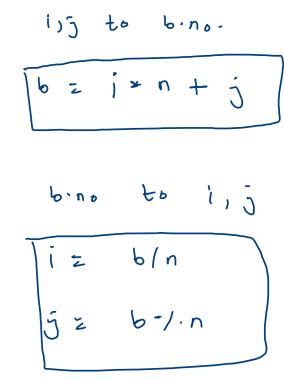
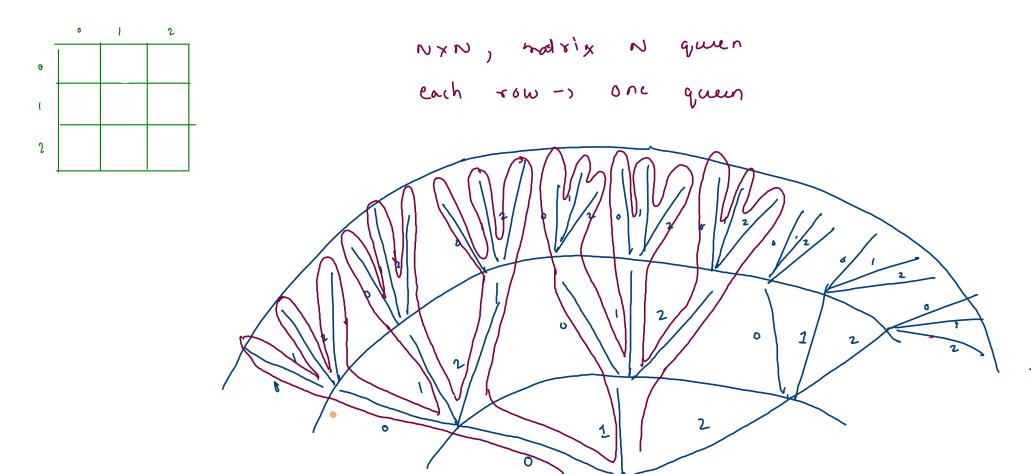


NXN matrix,

0 quens -> 2 = 9 co  

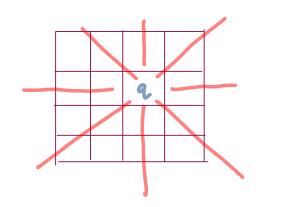
$$\frac{(a_{1})^{3}}{(a_{1})^{3}}$$
 |  $\frac{(a_{1})^{3}}{(a_{2})^{3}}$  |  $\frac{(a_{1$ 

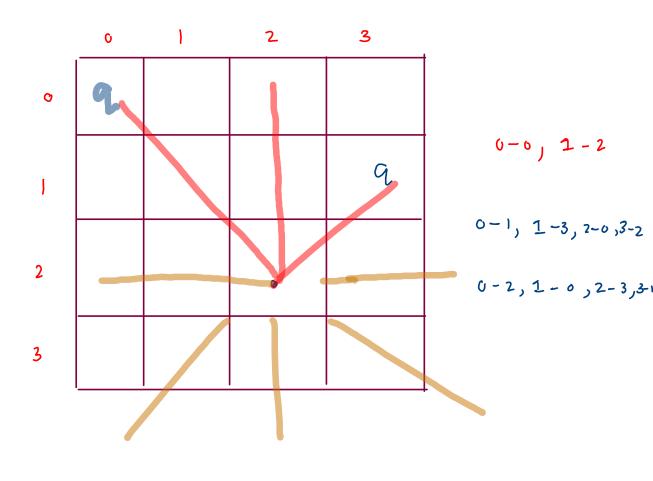




-

N- quens





```
01-13-20-32
```

```
public static void printNQueens(int[][] chess, String psf, int row) {
    if(row == chess.length) {
        System.out.println(psf + ".");
        return;
    }

    for(int col = 0; col < chess.length;col++) {
        if(isQueenSafe(chess,row,col) == true) {
            //place the queen at row,col
            chess[row][col] = 1;
            //make call to next row
            printNQueens(chess,psf + row + "-" + col + ", ",row + 1);
            //unplace the queen at row,col
            chess[row][col] = 0;
    }
}</pre>
```

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	9		
			a
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a			
		, , ,	

	6		2	5	9
0	19	2	(3	8	21
1	12	7	20	3	ſų
2	7	18	15	22	9
3	6	Ħ	24	17	4
4	25	İ6	5	ĺΰ	2.3

```
25 2 13 8 23
12 7 24 3 14
1 18 15 22 9
6 11 20 17 4
19 16 5 10 21
```

```
public static void printKnightsTour(int[][] chess, int r, int c, int move) {
   if(r < 0 | c < 0 | r >= chess.length | c >= chess.length | chess[r][c] != 0) {
       return;
   if(move == chess.length * chess.length) {
       chess[r][c] = move;
       displayBoard(chess);
       chess[r][c] = 0;
       return;
   chess[r][c] = move;
   printKnightsTour(chess,r-2,c+1,move+1);
   printKnightsTour(chess,r-1,c+2,move+1);
   printKnightsTour(chess,r+1,c+2,move+1);
   printKnightsTour(chess,r+2,c+1,move+1);
   printKnightsTour(chess,r+2,c-1,move+1);
   printKnightsTour(chess,r+1,c-2,move+1);
   printKnightsTour(chess,r-1,c-2,move+1);
   printKnightsTour(chess,r-2,c-1,move+1);
   chess[r][c] = 0;
```

