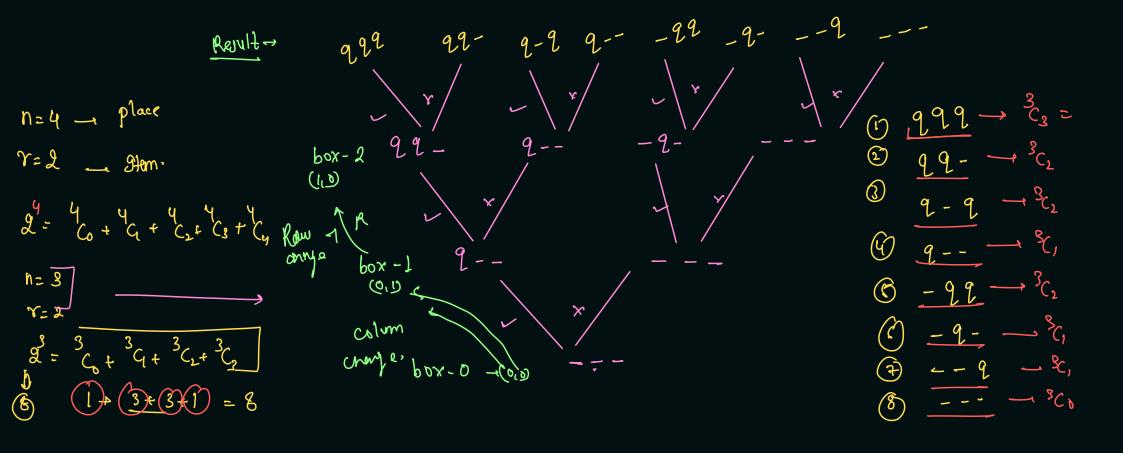
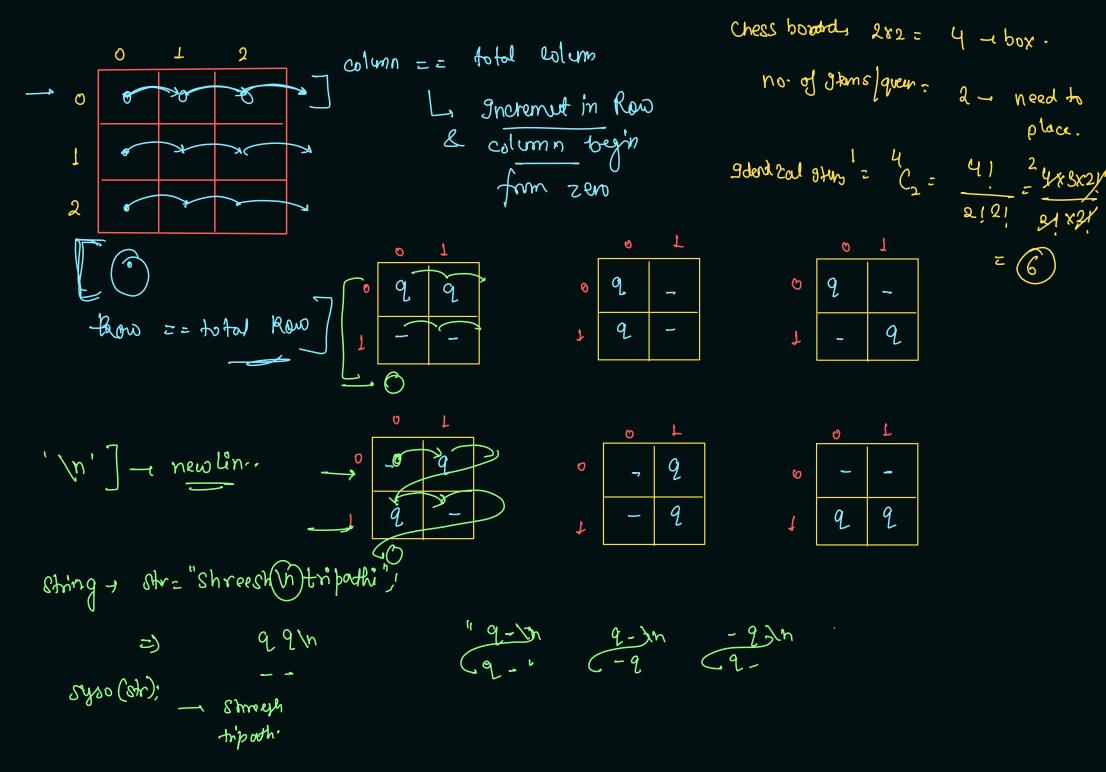
Queen combinations - 20 as 20 - Box chooses:

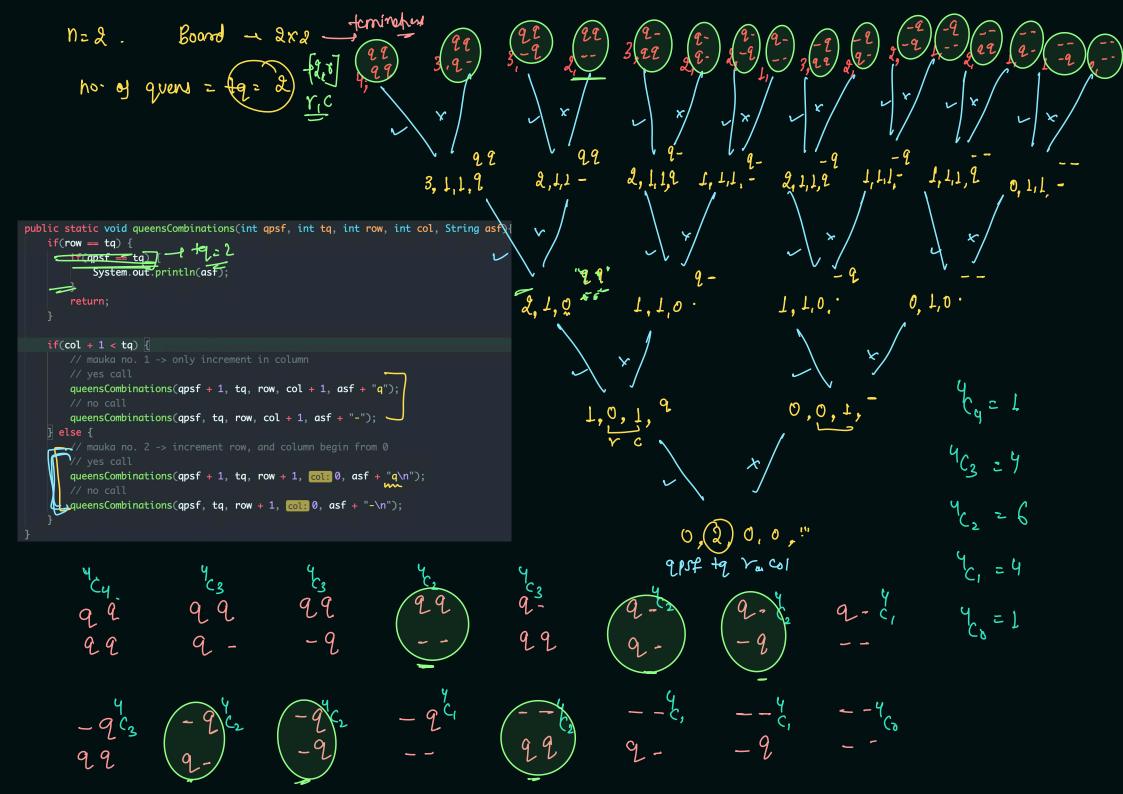
In nxn board, n- Identical greens [behavious is not as chass queun], print all possible ways to place greens in chessboard.

level-Box options-chaice of queen. gn = n_{Co +} n_{Cl +} n_{Cz +} --... + n_{Cr}

9 dea from Subseq.







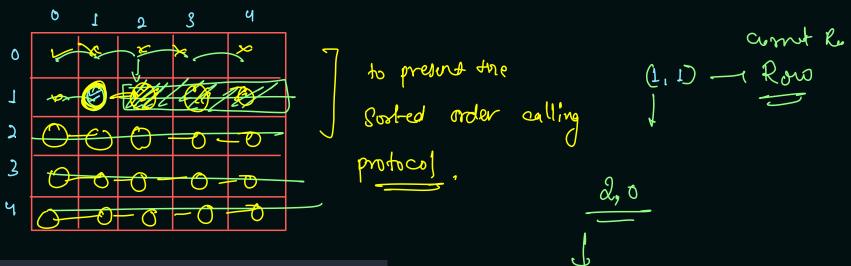
gtem -1

```
n= 2,
                      Board = 2x2.
                      no. of non- Identical Items /queen= 2
                                   1/p = 4/ = 4x3×25 = (12)
// qpsf -> queen place so far, tq -> total queen, level -> queen, optic
public static void queensPermutations(int qpsf, int tq, int□□ chess){
    if(qpsf == tq) {
        for(int i = 0; i < chess.length; i++) {</pre>
            for(int j = 0; j < chess.length; j++) {</pre>
                if(chess[i][j] != 0)
                    System.out.print("q" + chess[i][j] + "\t");
                                                                  roult
                else
                                                                                                    (F'9)
                                                                                                                  (019)
                                                                                                                        ભ્ય)
                                                                                                                                     (010)
                    System.out.print(s: "-\t");
                                                                                    (1.1)
                                                                                              (0,9)
                                                                                (79)
            System.out.println();
                                                                           (O, 1)
        System.out.println();
        return;
    // option -> box
    for(int i = 0; i < chess.length; i++) {</pre>
        for(int j = 0; j < chess.length; j++) {</pre>
            if(chess[i][j] == 0) {
                                                                                                                 (T' 0)
                                                                                                      6(1)
                chess[i][j] = qpsf + 1;
                                                                                          (0,0)
                queensPermutations(qpsf + 1, tq, chess);
                chess[i][j] = 0;
                                                                                queen 1-
```

9tem_1

(0)

(0, -1)



o om plete

(00)

```
// finish current row
for(int c = j + 1; c < chess.length; c++) {
    int r = i;
    chess[r][c] = true;
    queensCombinations(qpsf + 1, tq, chess, r, c);
    chess[r][c] = false;

// fininsh remaining board

for(int r = i + 1; r < chess.length; r++) {
    for(int c = 0; c < chess.length; c++) {
        chess[r][c] = true;
        queensCombinations(qpsf + 1, tq, chess, r, c);
        chess[r][c] = false;
}</pre>
```