knight tour

```
public static void printKnightsTour(int[][] chess, int r, int c, int upcomingMove) {
if(upcomingMove == chess.length * chess.length) {
    chess[r][c] = upcomingMove;
    displayBoard(chess);
    chess[r][c] = 0;
    return;
}

chess[r][c] = upcomingMove;

for(int i=0; i < 8;i++) {
    int nr = r + dir[i][0];
    int nc = c + dir[i][1];

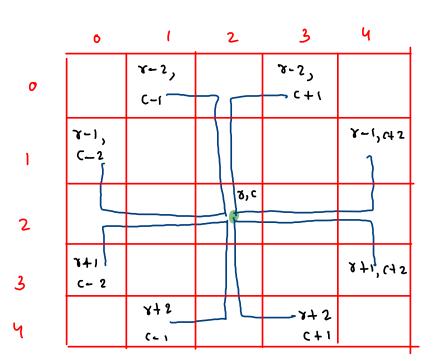
    if(nr >= 0 && nr < chess.length && nc >= 0 && nc < chess.length && chess[nr][nc] == 0) {
        printKnightsTour(chess,nr,nc,upcomingMove + 1);
    }
    chess[r][c] = 0;</pre>
```

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

•	t	2	3	4
19	2	13	8	
12	7	18	3	14
1	20	15	24	9
6	11	22	17	4
21	16	5	lo	23

0

4



$$(-2,1)$$
, $(-1,2)$, $(1,2)$, $(2,1)$, $(2,1)$, $(2,-1)$, $(2,-1)$, $(-1,-2)$, $(-1,-2)$, $(-2,-1)$