

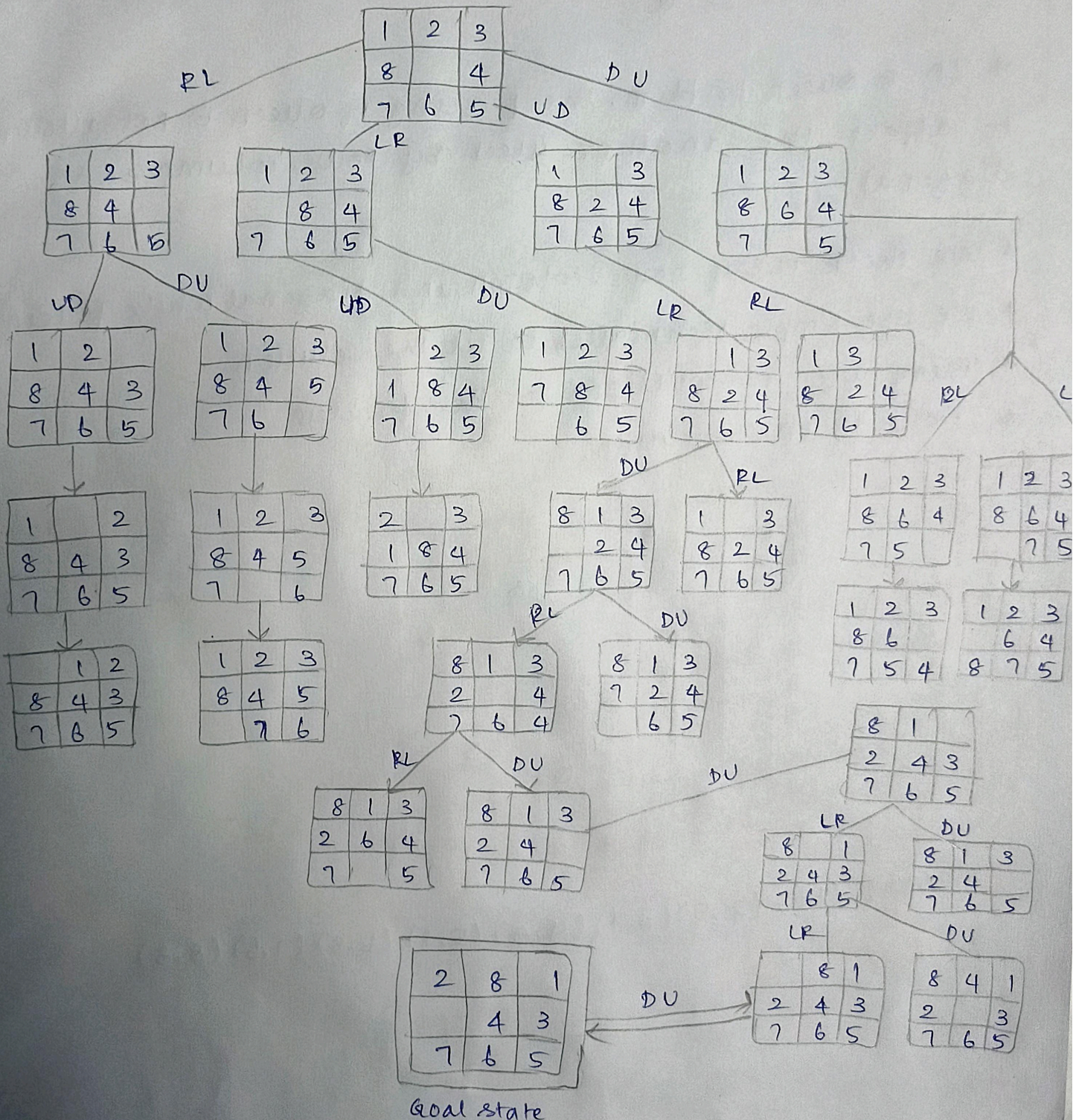
1. solve the 8 puzzle problem using the following input and output

1	2	3
8		4
7	6	5

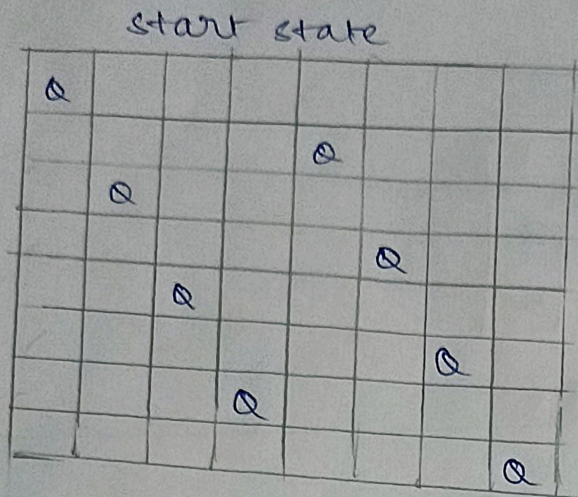
Initial state

2	8	1
	4	3
7	6	5

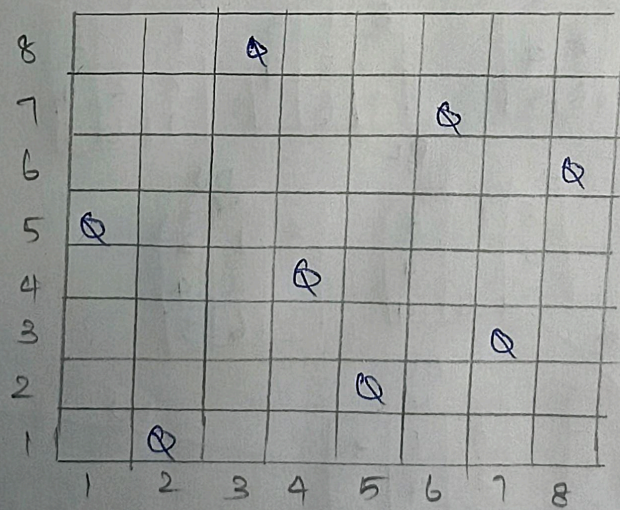
Goal state



2. Solve the 8 Queen problem using the following input and output

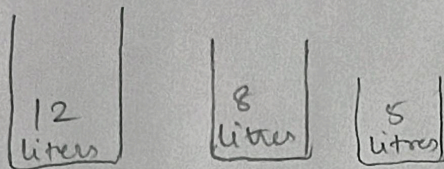


- * In 8 Queen problem, the placing of queen is not allowed to affect the another queen by rows, column and diagonal.
- * We check every rows, column and diagonal while placing
- * We use simple techniques to get the solution
- * There are 92 solutions for this problem.
- * Here is one solution.



Ans: (1,2) (2,5) (3,7) (4,4) (5,1) (6,8) (7,6) (8,3)

3. solve watering problem using the following input and output



Solution

Given: (12, 0, 0)

Goal state: (6, 6, 0)

① → → Pour from 12 into 8L

② → → Pour from 8 into 5L

③ → → Pour from 5 into 12L

④ → → Pour from 8 into 5L

⑤ → → Pour from 12 into 8L

⑥ → → Pour from 8 into 5L

⑦ → → Pour from 5 into 12L

The final solution is (6, 6, 0)