LAB-04

Hill climbing problem

function Hill climbing(problem) greturns Local maximum
    current ← Initial state. problem
    loop do
        neighbor ← highest scoring successor of current
        if current.value ≥ neighbor.value return current
        current ← neighbor
    end loop

4-Queens

			Q
	Q		
		Q	
Q			

State Queens				Score	
3	1	2	0	Q	
1	3	2	0	1	→ Select this
2	1	3	0	1	
0	1	2	3	6	
3	2	1	0	6	
3	0	2	1	1	
3	1	0	2	1	

8
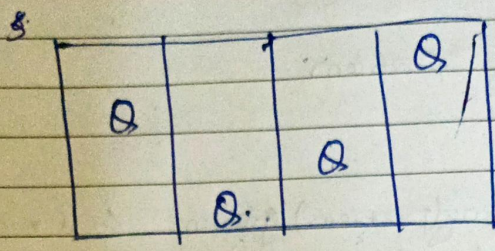
State				Score
1	3	2	0	1
8	1	2	0	2
2	3	1	0	2
0	3	2	1	3
1	2	3	0	3
1	3	0	2	0	← return solution

Execute

← goal