Mountain Climber Problem - A mountain climber is trying to reach the highest peaks they can while taking the shortest path available. Starting with the highlighted node, help the mountain climber to find the highest peak possible while using the rules below, inspired by the Hill Climber algorithm seen in class. Please write the sequence of moves necessary to get to the highest possible peak. (for example: L, R, U, D)

Rules:

- Your starting point is the green square
- They can only move up or to the same height - descending is not allowed
- They can only move to a neighboring node - jumping between nodes is not allowed
- The climber always chooses the neighboring node with highest value (break ties however you want)
- The mountain climber can only move left/right and up/down - no diagonals
- Revisiting a node that has already been traversed is not allowed
- There can be more than one correct solution

Problem 1:

1	2	2	1	2	1
2	2	3	4	3	3
4	3	2	5	2	2
6	4	7	6	3	5
5	9	8	4	6	8

Problem 2:

9	8	5	7	8	6
4	7	6	7	3	8
7	4	5	4	4	7
4	4	5	3	5	3
5	3	4	2	1	4

Problem 3:

5	7	6	7	9	6	5
6	8	9	8	8	4	4
7	7	8	9	4	5	4
8	9	9	10	2	4	3
5	6	6	3	3	4	2
2	2	3	5	4	3	2
1	3	7	5	3	1	1