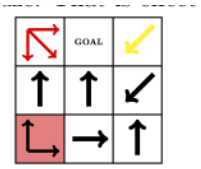
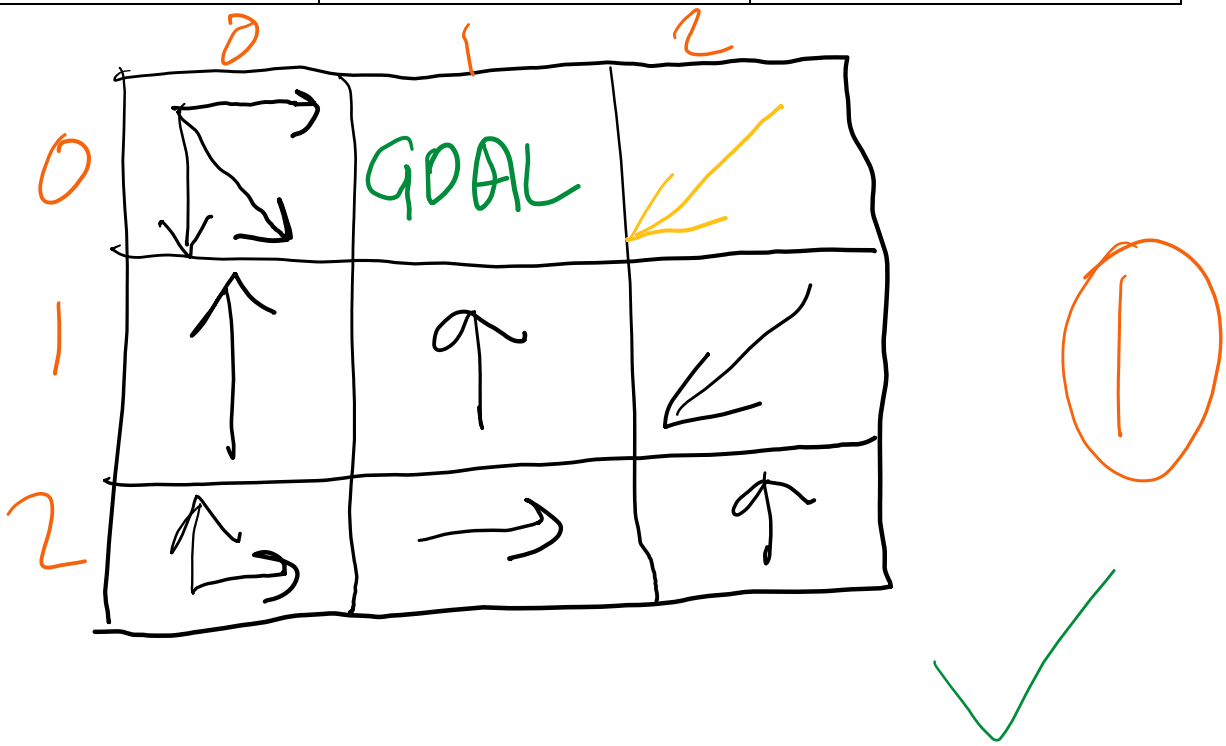
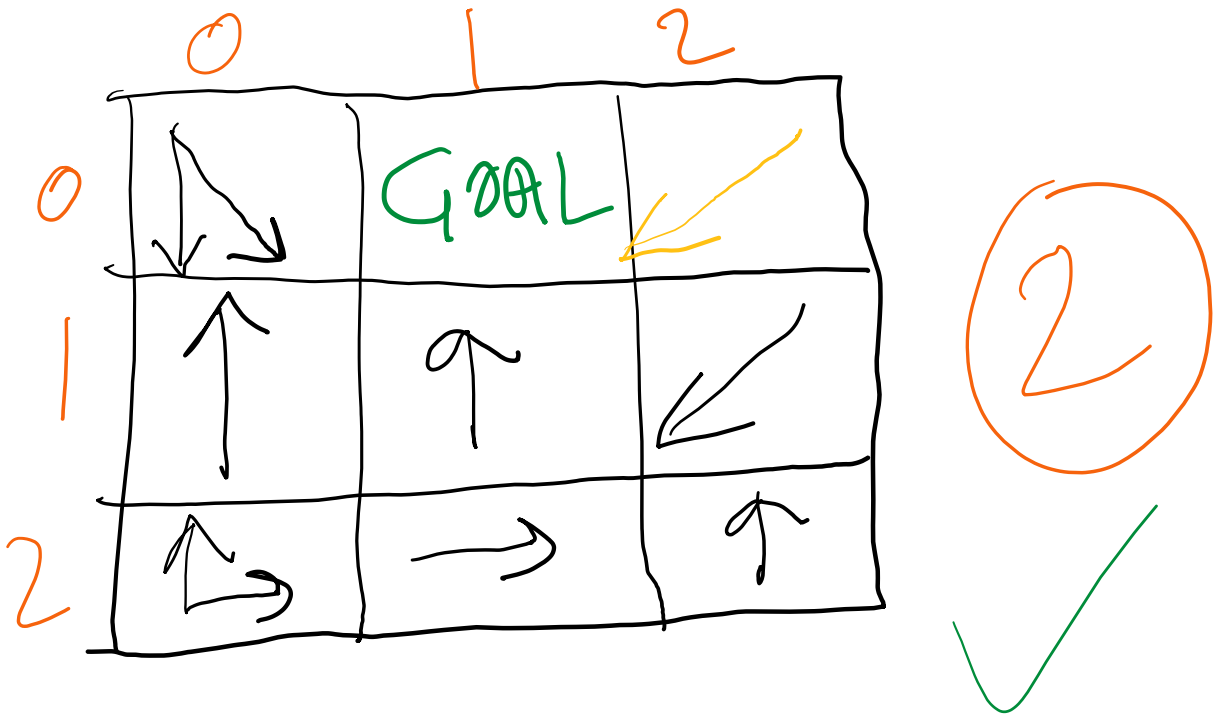
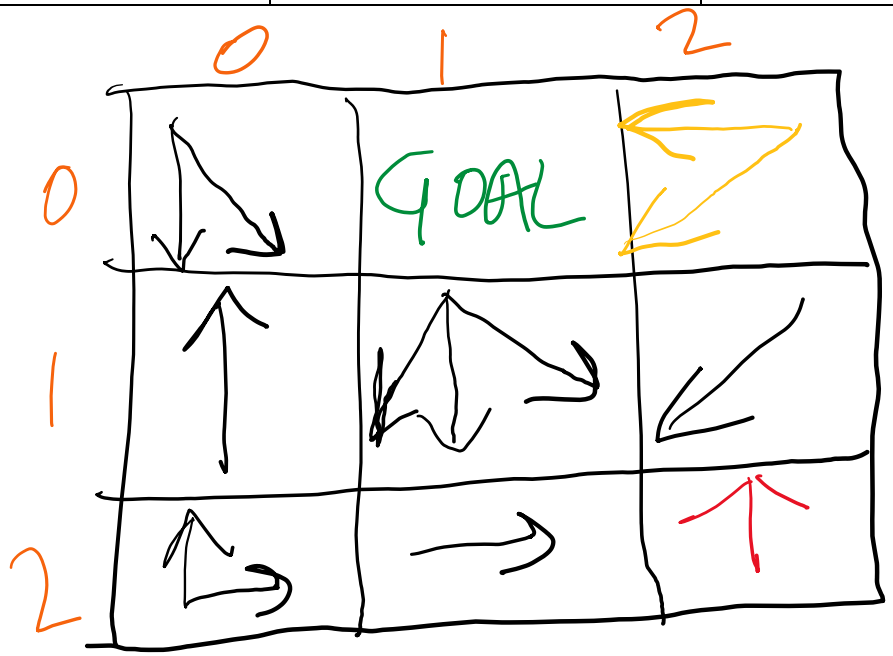
loc = {row: 0, col: 0} d += 0 moves = [(row + d, col), (*row*, col + d), (row + d, col + d)]	loc = {row: 0, col: 1} d moves = [] Goal = TRUE 	loc = {row: 0, col: 2} d −= 1 moves = [(row + d, col − d)]
loc = {row: 1, col: 0} d += 0 moves = [(row − d, col)]	loc = {row: 1, col: 1} d += 0 moves = [(row − d, col)]	loc = {row: 1, col: 2} d += 0 moves = [(row + d, col − d)]
loc = {row: 2, col: 0} d += 0 moves = [(row − d, col), (*row*, col + d)]	loc = {row: 2, col: 1} d += 0 moves = [(*row*, col + d)]	loc = {row: 2, col: 2} d += 0 moves = [(row − d, col)]

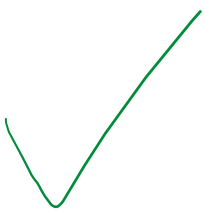


loc = {row: 0, col: 0} d += 0 moves = [(row + d, col), (row + d, col + d)]	loc = {row: 0, col: 1} d moves = [] Goal = TRUE	loc = {row: 0, col: 2} d −= 1 moves = [(row + d, col − d)]
loc = {row: 1, col: 0} d += 0 moves = [(row − d, col)]	loc = {row: 1, col: 1} d += 0 moves = [(row − d, col)]	loc = {row: 1, col: 2} d += 0 moves = [(row + d, col − d)]
loc = {row: 2, col: 0} d += 0 moves = [(row − d, col), (*row*, col + d)]	loc = {row: 2, col: 1} d += 0 moves = [(*row*, col + d)]	loc = {row: 2, col: 2} d += 0 moves = [(row − d, col)]

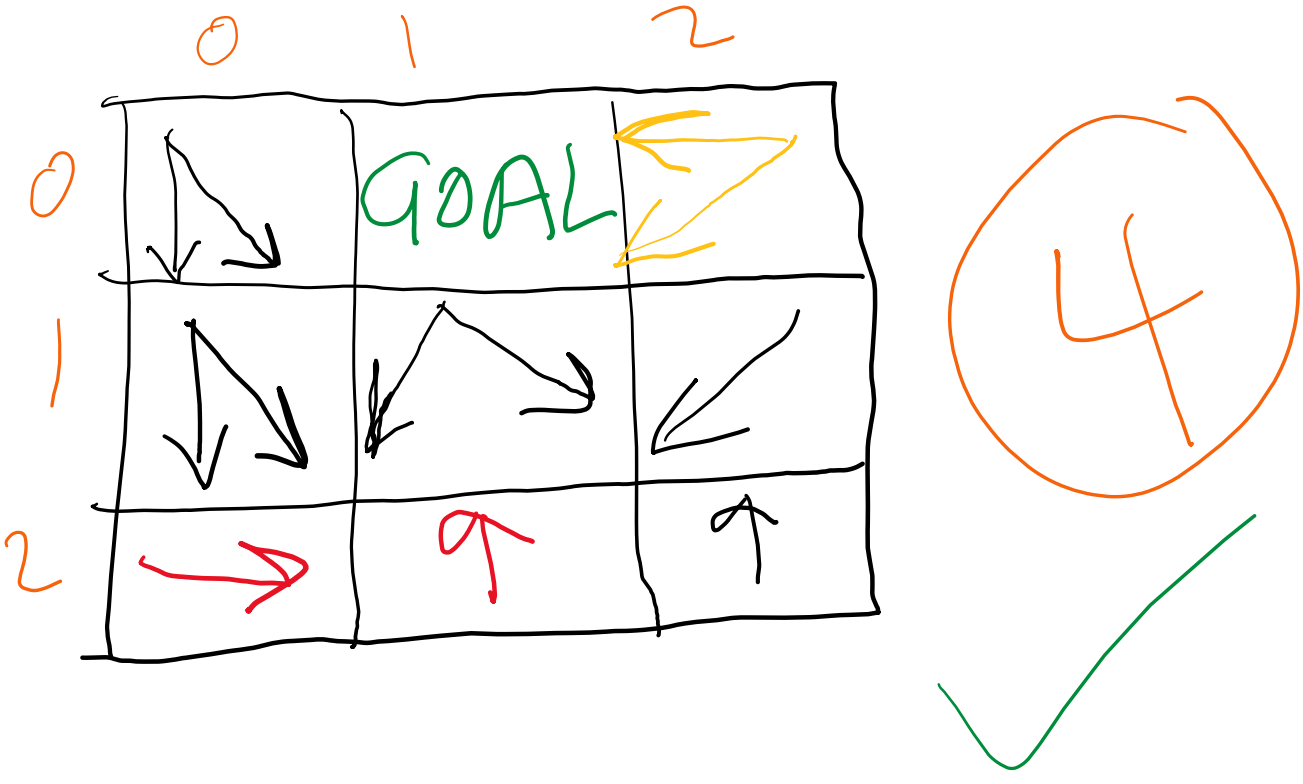


loc = {row: 0, col: 0} d += 0 moves = [(row + d, col), (row + d, col + d)]	loc = {row: 0, col: 1} d moves = [] Goal = TRUE	loc = {row: 0, col: 2} d −= 1 moves = [(row + d, col − d), (row, col − d),]
loc = {row: 1, col: 0} d += 0 moves = [(row − d, col)]	loc = {row: 1, col: 1} d += 0 moves = [(row + d, col + d), $(row + d, col - d)$, (row + d, col)]	loc = {row: 1, col: 2} d += 0 moves = [(row + d, col − d)]
loc = {row: 2, col: 0} d += 0 moves = [(row − d, col), $(row$, col + d)]	loc = {row: 2, col: 1} d += 0 moves = [$(row$, col + d)]	loc = {row: 2, col: 2} d += 1 moves = [(row − d, col)]

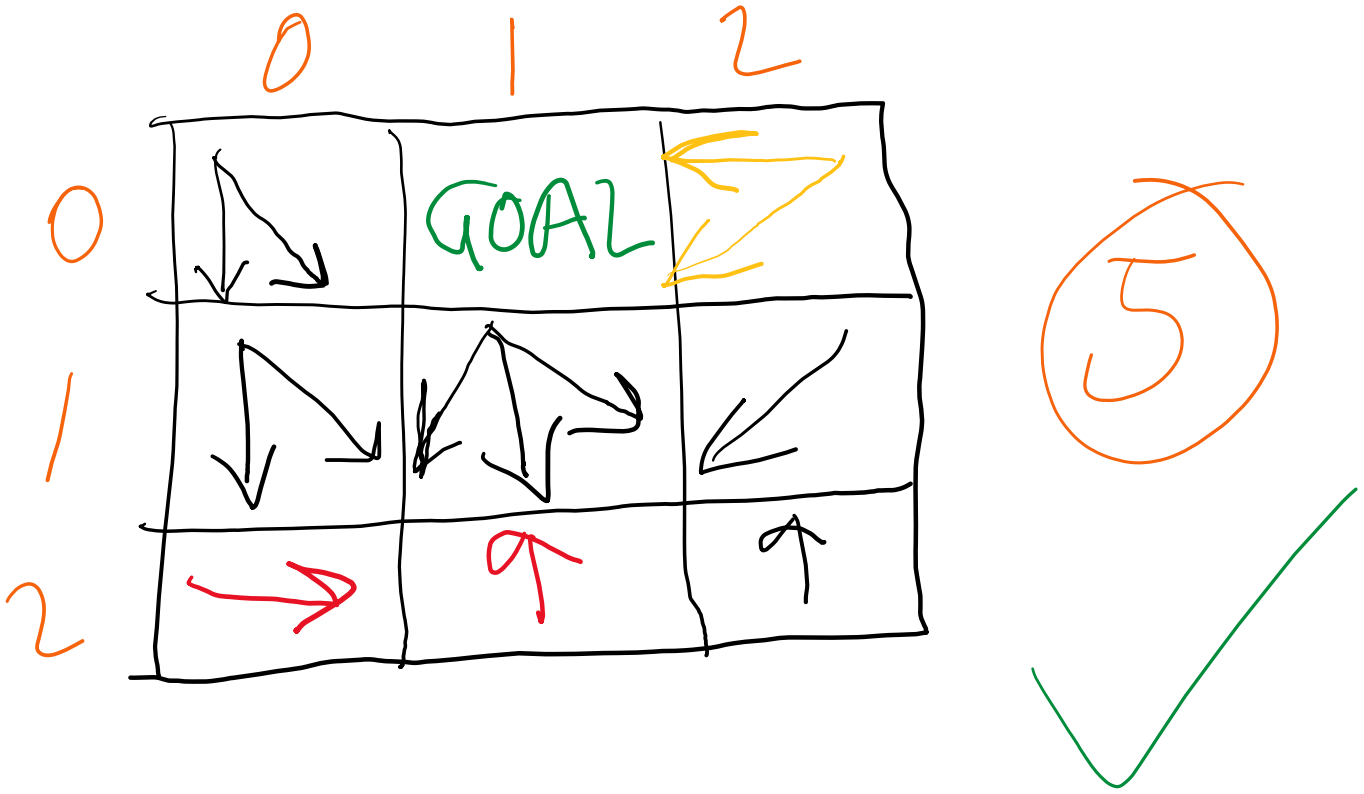


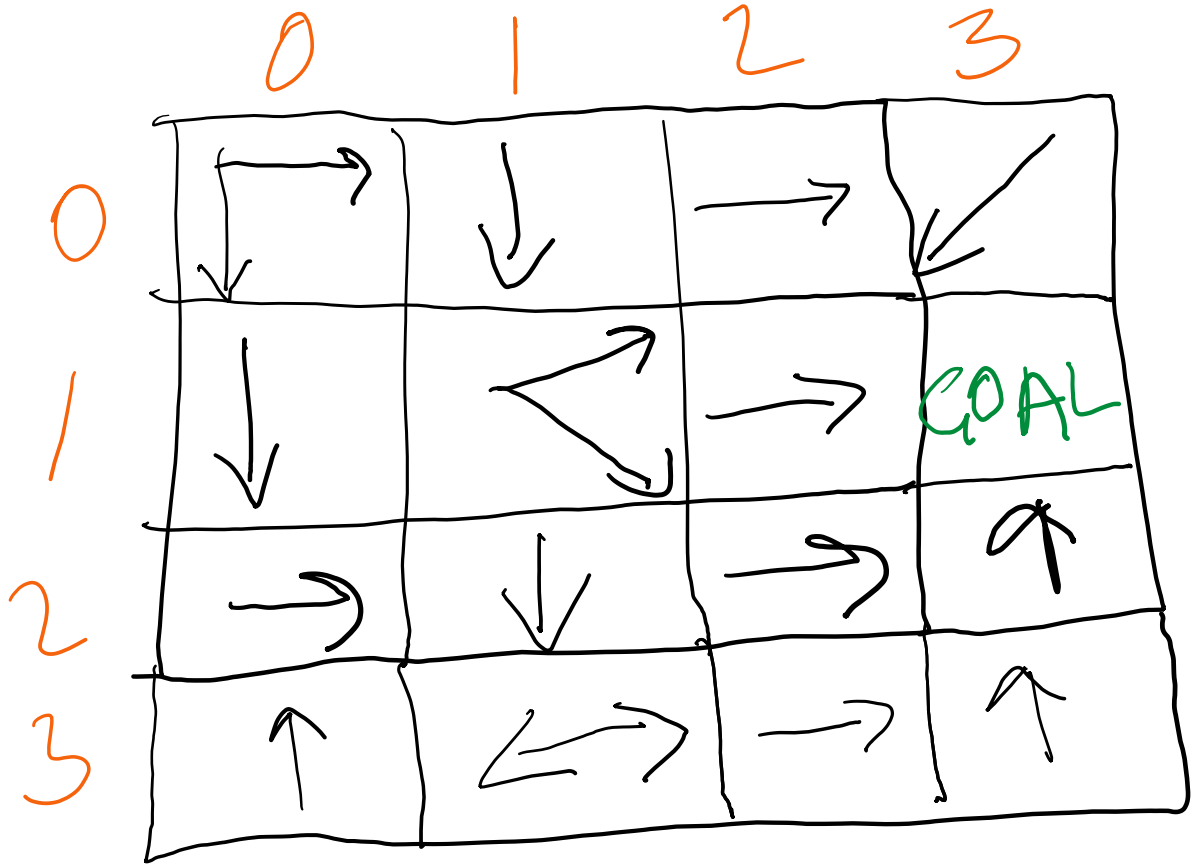


loc = {row: 0, col: 0} d += 0 moves = [(row + d, col), (row + d, col + d)]	loc = {row: 0, col: 1} d moves = [] Goal = TRUE	loc = {row: 0, col: 2} d −= 1 moves = [(row + d, col − d), (row, col − d),]
loc = {row: 1, col: 0} d += 0 moves = [(row + d, col) (row + d, col + d)]	loc = {row: 1, col: 1} d += 0 moves = [(row + d, col + d), $(row + d, col - d)$]	loc = {row: 1, col: 2} d += 0 moves = [(row + d, col − d)]
loc = {row: 2, col: 0} d += 0 moves = [$(row$, col + d)]	loc = {row: 2, col: 1} d += 1 moves = [$(row - d$, col)]	loc = {row: 2, col: 2} d += 1 moves = [(row − d, col)]

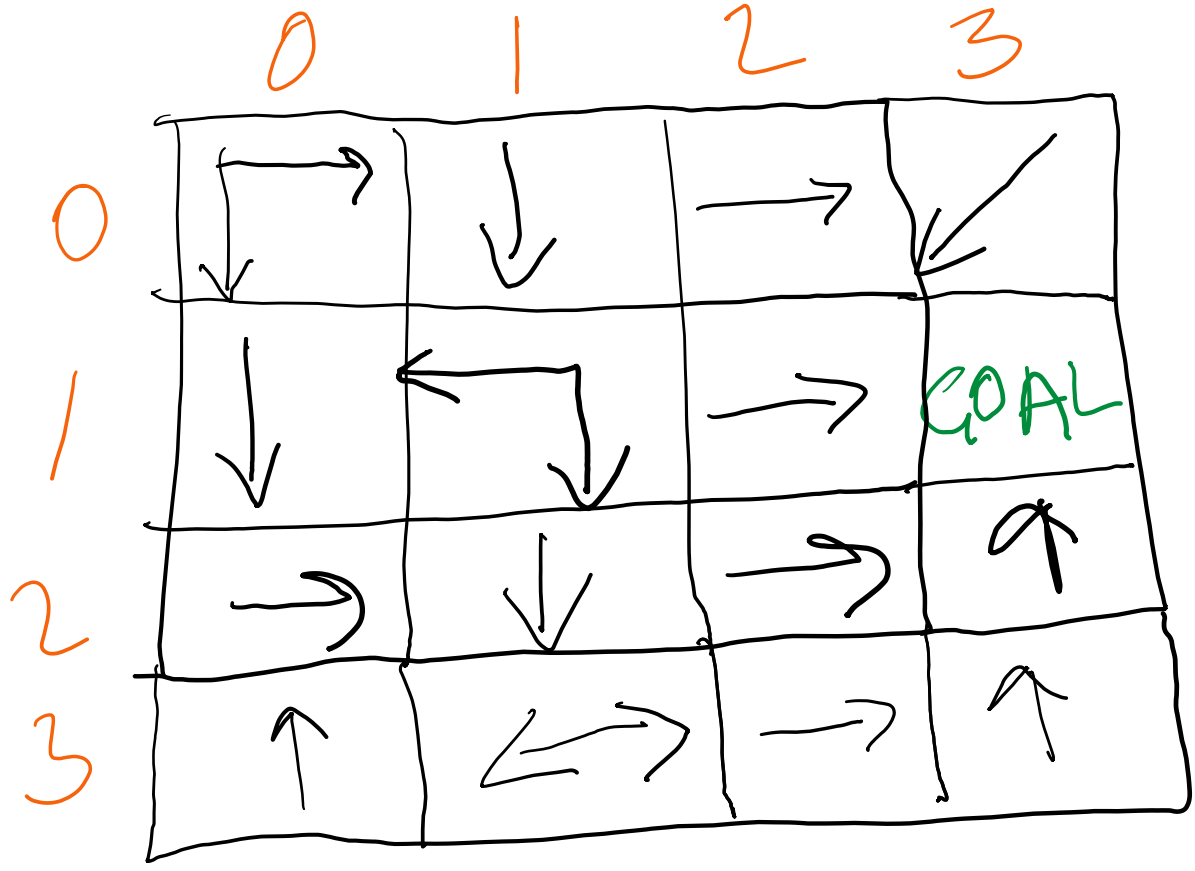


loc = {row: 0, col: 0} d += 0 moves = [(row + d, col), (row + d, col + d)]	loc = {row: 0, col: 1} d moves = [] Goal = TRUE	loc = {row: 0, col: 2} d −= 1 moves = [(row + d, col − d), (row, col − d),]
loc = {row: 1, col: 0} d += 0 moves = [(row + d, col)]	loc = {row: 1, col: 1} d += 0 moves = [(row + d, col + d), $(row + d, col - d)$, (row + d, col)]	loc = {row: 1, col: 2} d += 0 moves = [(row + d, col − d)]
loc = {row: 2, col: 0} d += 0 moves = [$(row$, col + d)]	loc = {row: 2, col: 1} d += 1 moves = [$(row - d$, col)]	loc = {row: 2, col: 2} d += 1 moves = [(row − d, col)]

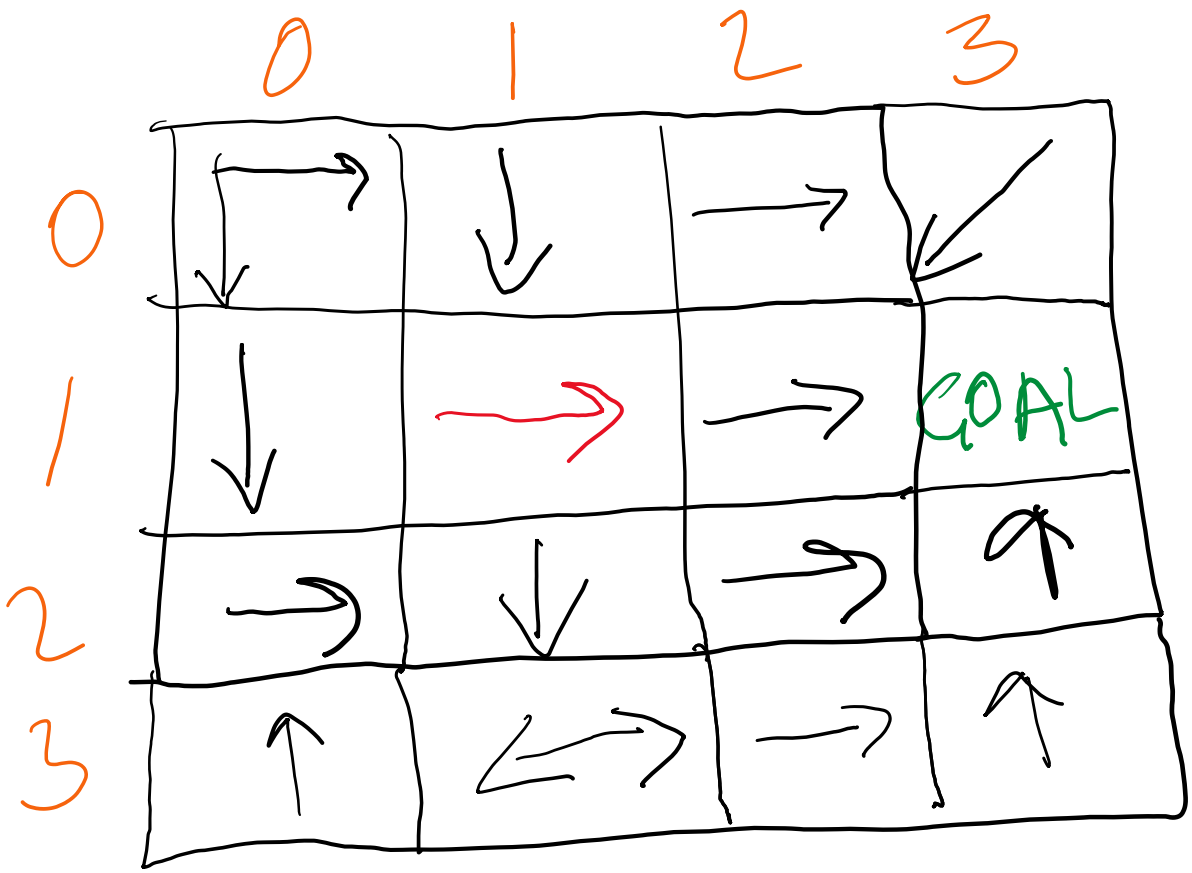




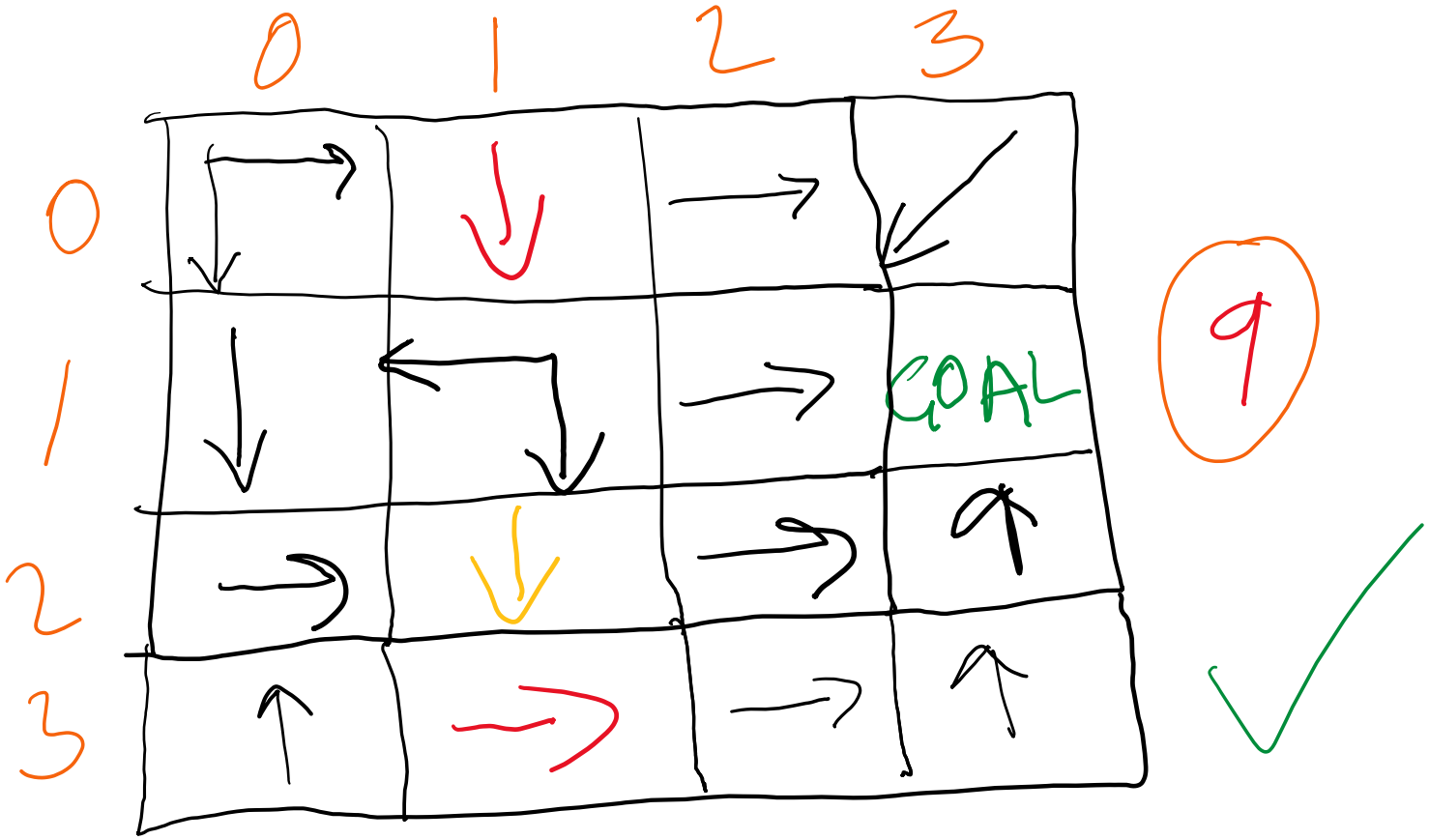
6



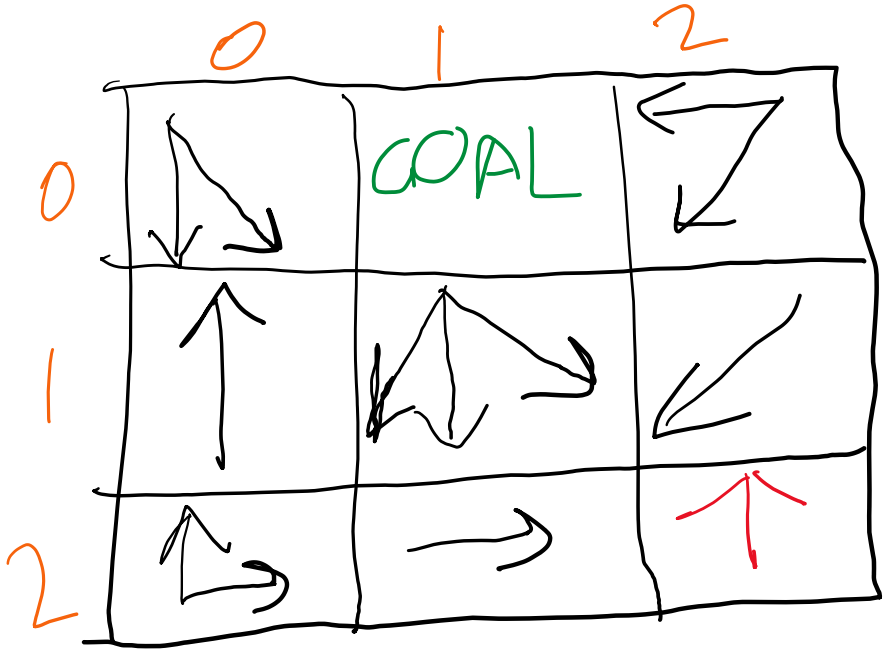
7



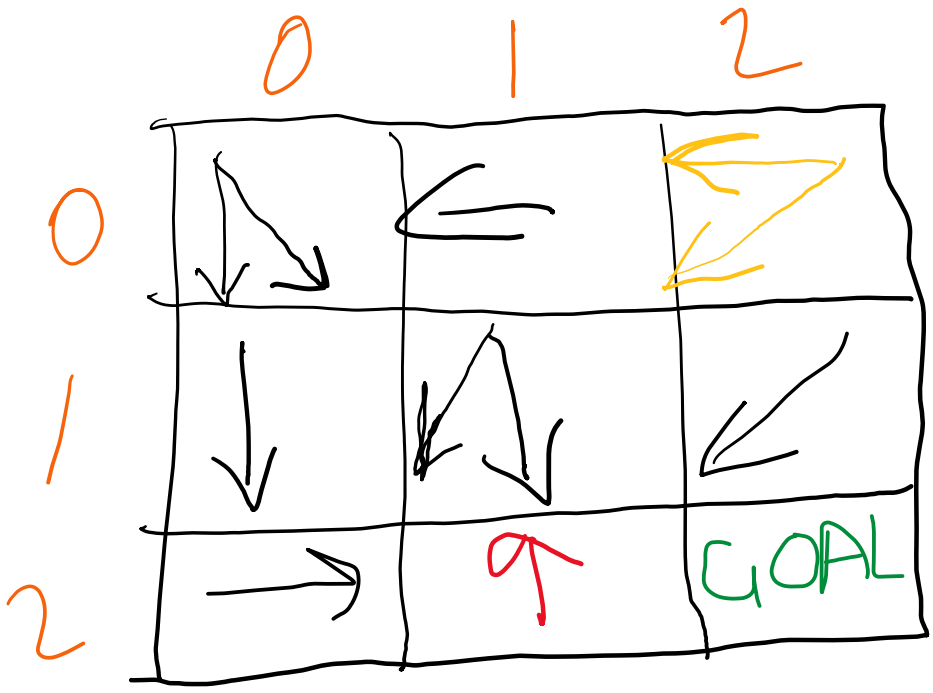
8



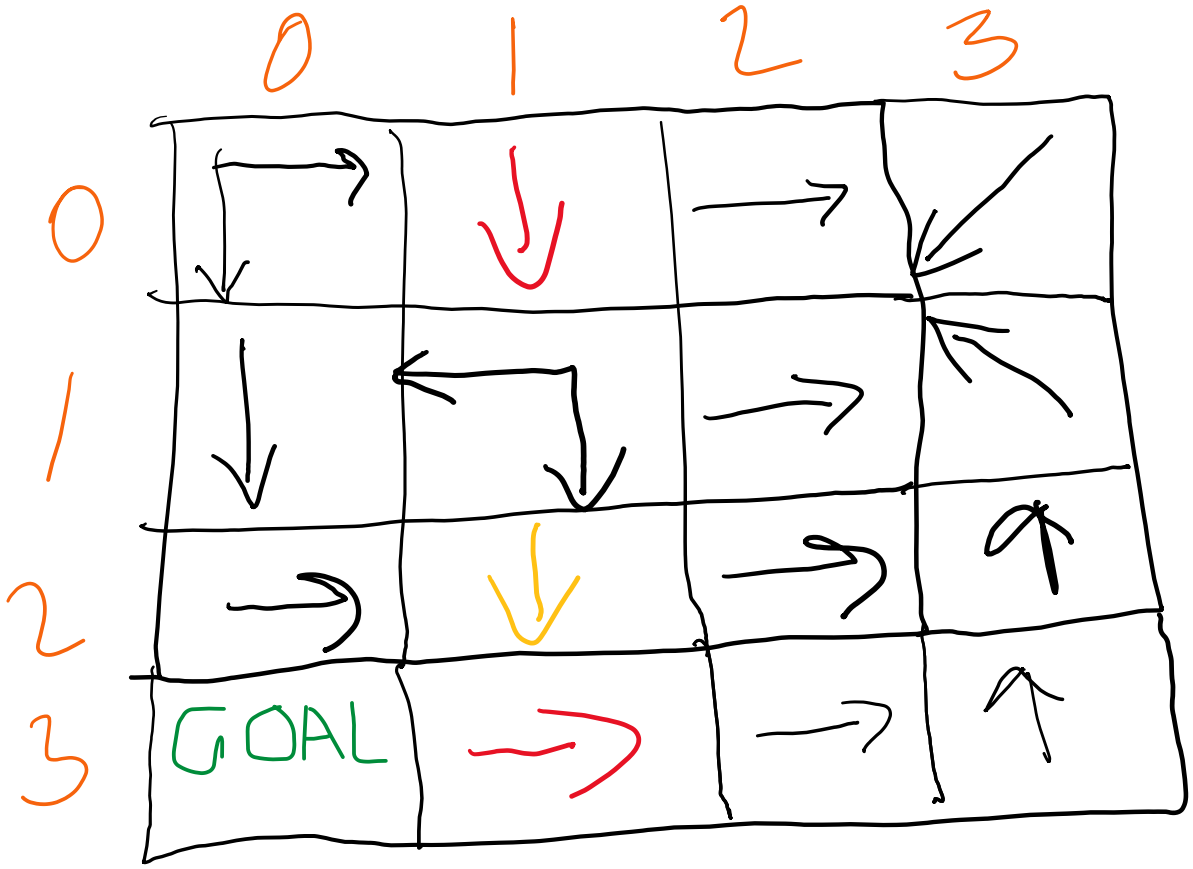
9



10

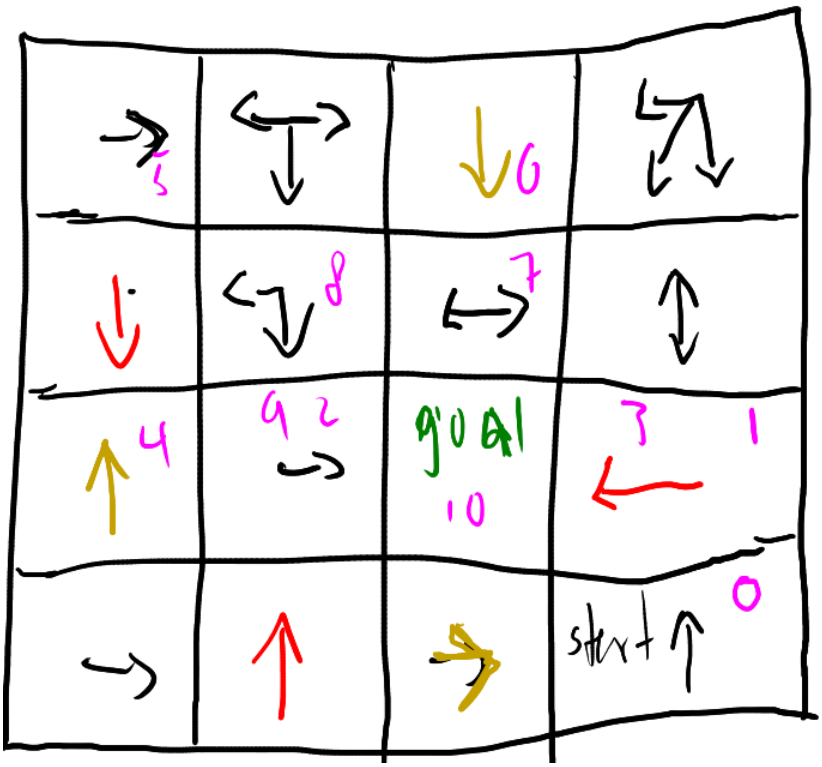


11



12

X



✓

**********Hello World, I Solve Alice Mazes**********

solve alice maze 1

Goal Found: (0, 1)

The shortest path is (0, 0)->(0, 1)

The shortest path length is 2

solve alice maze 2

Goal Found: (0, 1)

The shortest path is (0, 0)->(1, 1)->(0, 1)

The shortest path length is 3

solve alice maze 3

Goal Found: (0, 1)

The shortest path is (0, 0)->(1, 1)->(2, 2)->(0, 2)->(0, 1)

The shortest path length is 5

solve alice maze 4

Goal Found: (0, 1)

The shortest path is (0, 0)->(1, 0)->(2, 1)->(0, 1)

The shortest path length is 4

solve alice maze 5

Goal Found: (0, 1)

The shortest path is (0, 0)->(1, 1)->(2, 1)->(0, 1)

The shortest path length is 4

solve alice maze 6

Goal Found: (1, 3)

The shortest path is (0, 0)->(0, 1)->(1, 1)->(2, 2)->(2, 3)->(1, 3)

The shortest path length is 6

solve alice maze 7

Goal Found: (1, 3)

The shortest path is (0, 0)->(1, 0)->(2, 0)->(2, 1)->(3, 1)->(3, 2)->(3, 3)->(2, 3)->(1, 3)

The shortest path length is 9

solve alice maze 8

Goal Found: (1, 3)

The shortest path is (0, 0)->(0, 1)->(1, 1)->(1, 3)

The shortest path length is 4

solve alice maze 9: d gets to zero in (0,0)->(1,0)->(2,0)->(2,1)

Goal Found: (1, 3)

The shortest path is (0, 0)->(0, 1)->(2, 1)->(3, 1)->(3, 3)->(1, 3)

The shortest path length is 5

solve alice maze 10

Destination is not found

solve alice maze 11

Destination is not found

solve alice maze 12

Destination is not found

solve alice maze 13

Goal Found: (2, 2)

The shortest path is (3, 3)->(2, 3)->(2, 1)->(2, 3)->(2, 0)->(0, 0)->(0, 2)->(1, 2)->(1, 1)->(2, 1)->(2, 2)

The shortest path length is 11