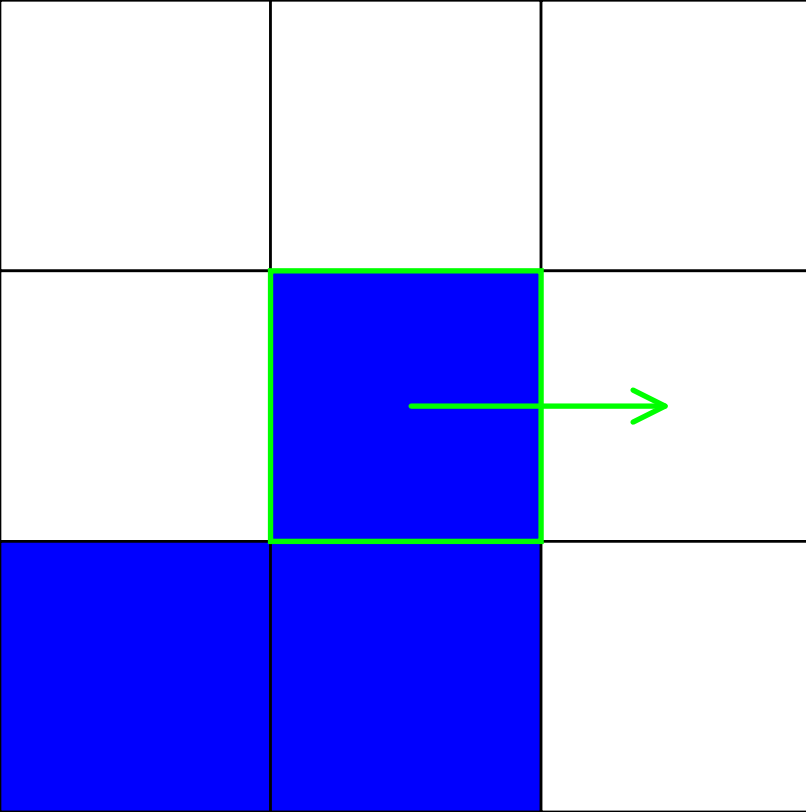


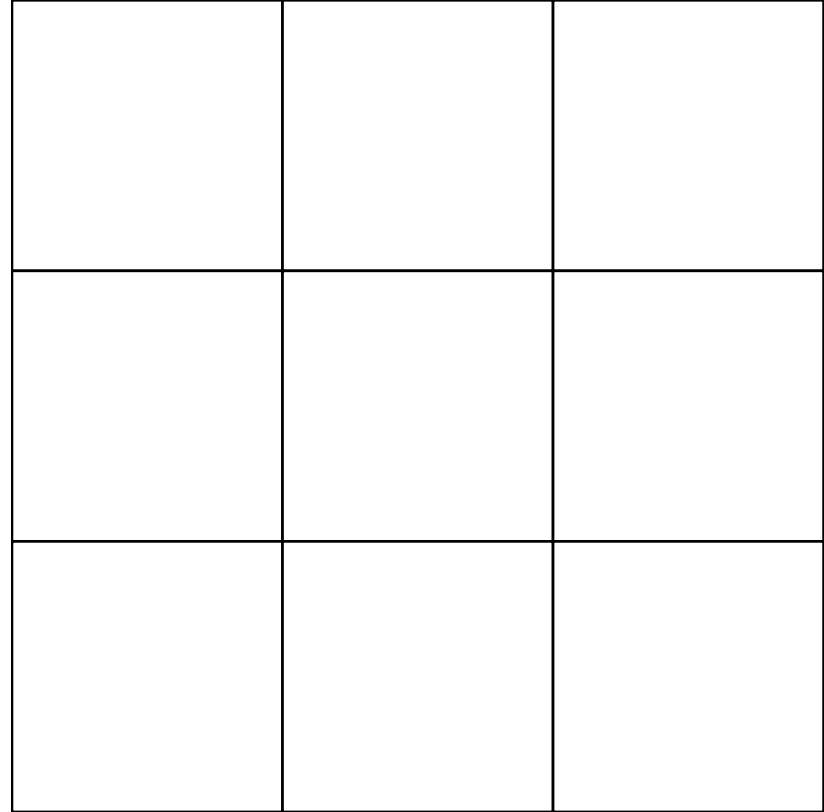
...:SOLUTION:...: Solvable in 1 moves (blocks positions: {(1, 1): <Color: blue>, (2, 0): <Color: blue>, (2, 1): <Color: blue>})

INITIAL STATE: (MOVE 1)

Perform: move_right at position: (1, 1):



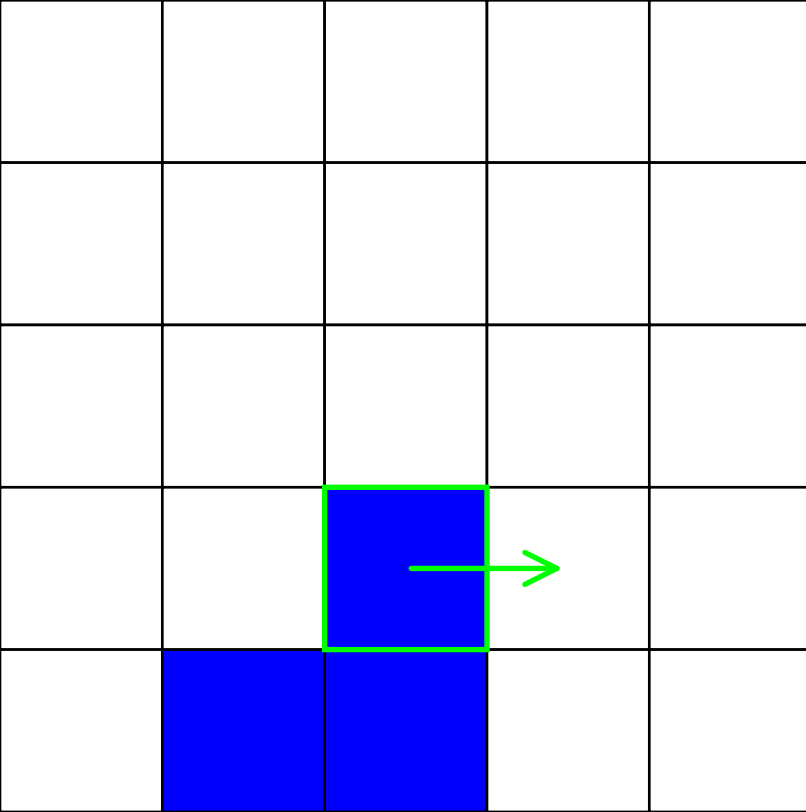
FINAL STATE



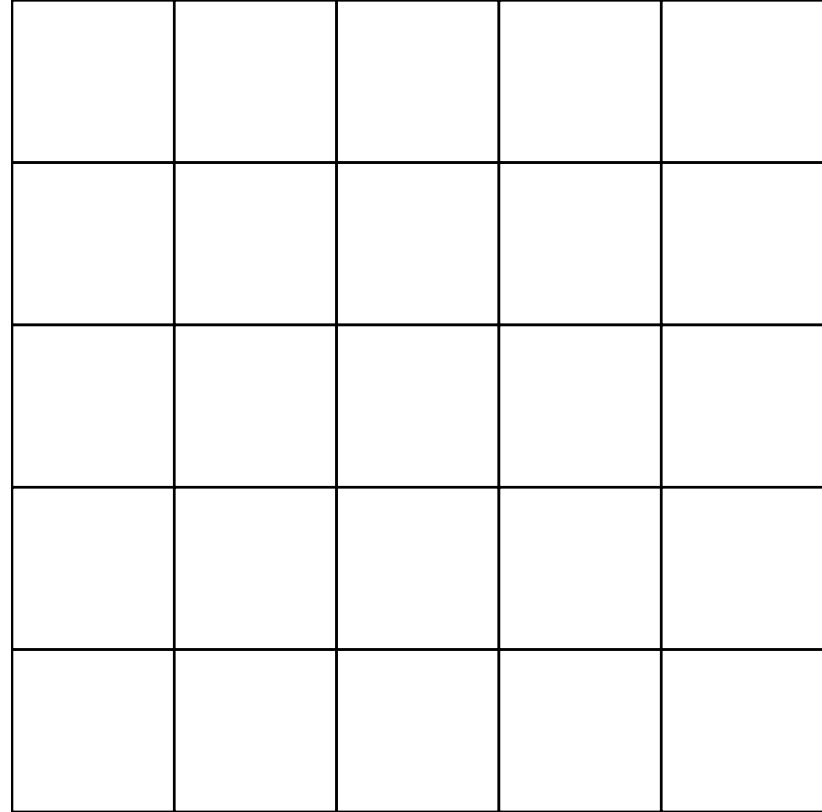
...:SOLUTION:...: Solvable in 1 moves (blocks positions: {(3, 2): <Color: blue>, (4, 1): <Color: blue>, (4, 2): <Color: blue>})

INITIAL STATE: (MOVE 1)

Perform: move_right at position: (3, 2):



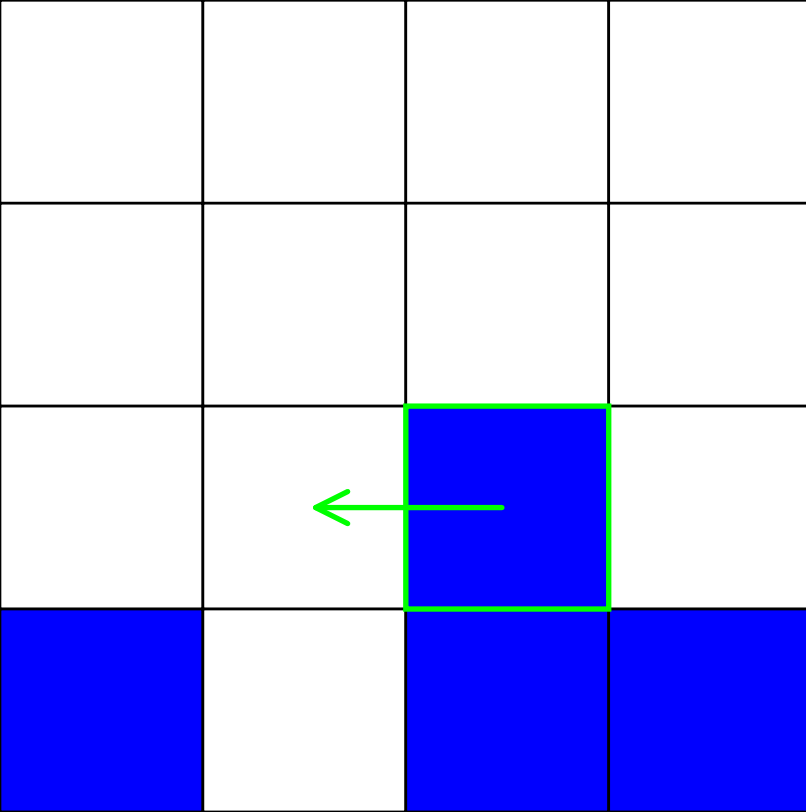
FINAL STATE



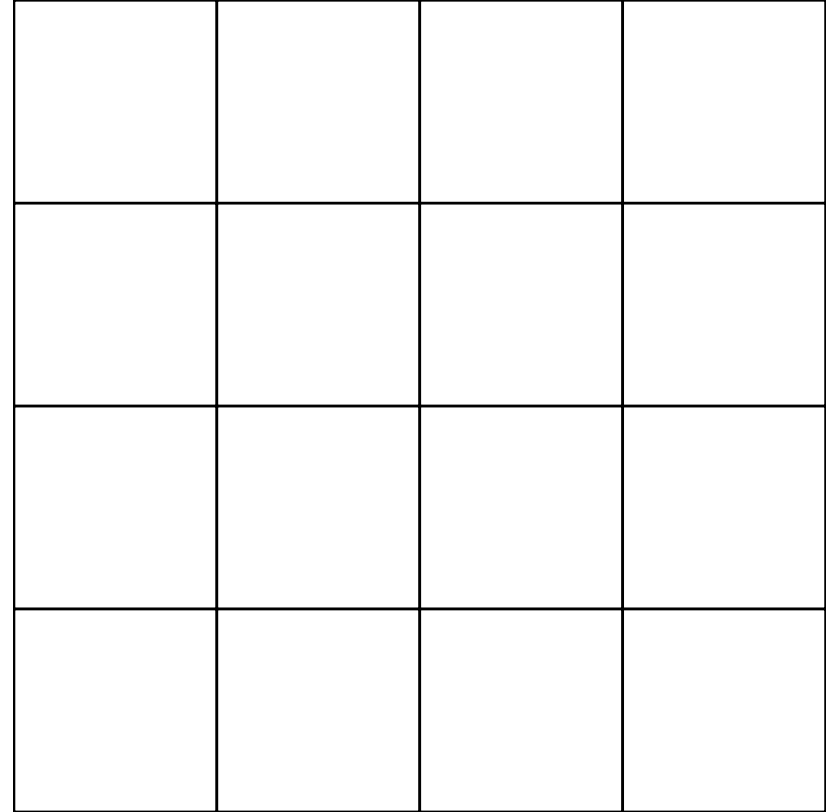
...:SOLUTION::...: Solvable in 1 moves (blocks positions: {(2, 2): <Color: blue>, (3, 0): <Color: blue>, (3, 2): <Color: blue>, (3,

INITIAL STATE: (MOVE 1)

Perform: move_left at position: (2, 2):



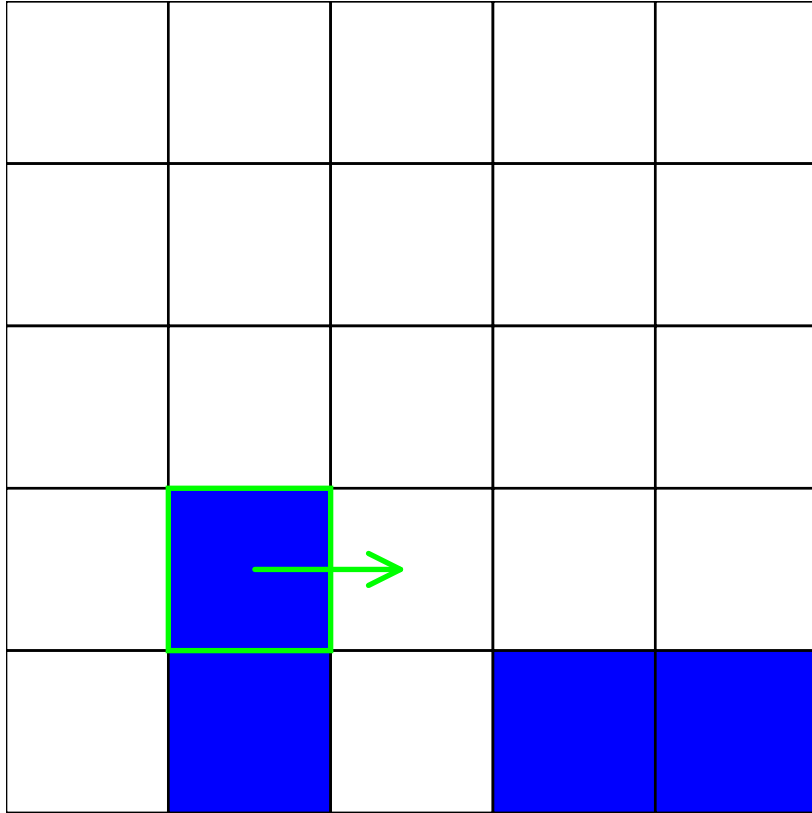
FINAL STATE



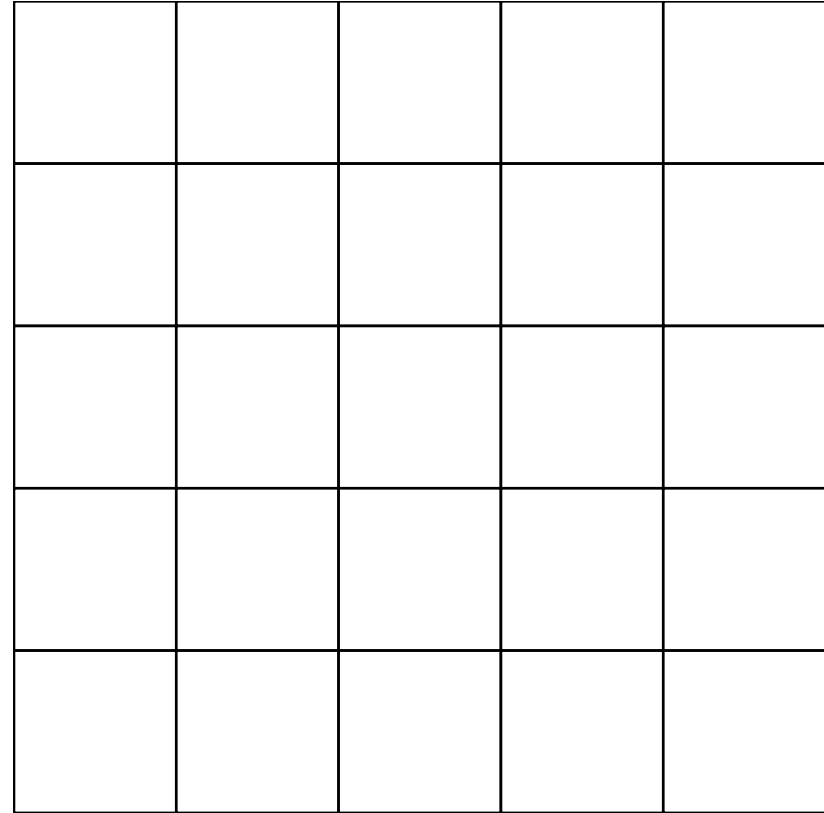
...:SOLUTION:...: Solvable in 1 moves (blocks positions: {(3, 1): <Color: blue>, (4, 1): <Color: blue>, (4, 3): <Color: blue>, (4,

INITIAL STATE: (MOVE 1)

Perform: move_right at position: (3, 1):

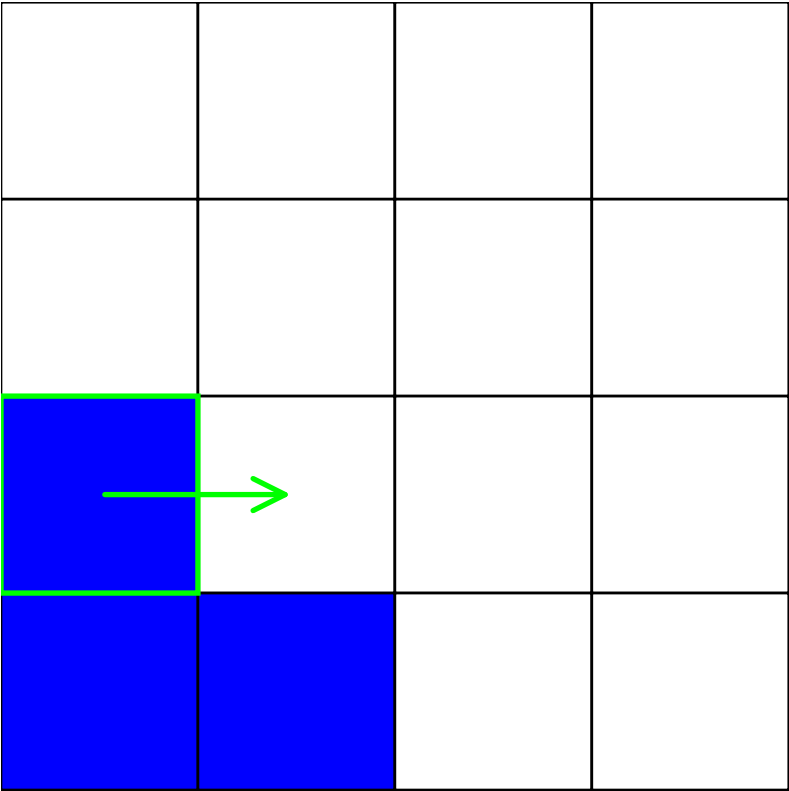


FINAL STATE

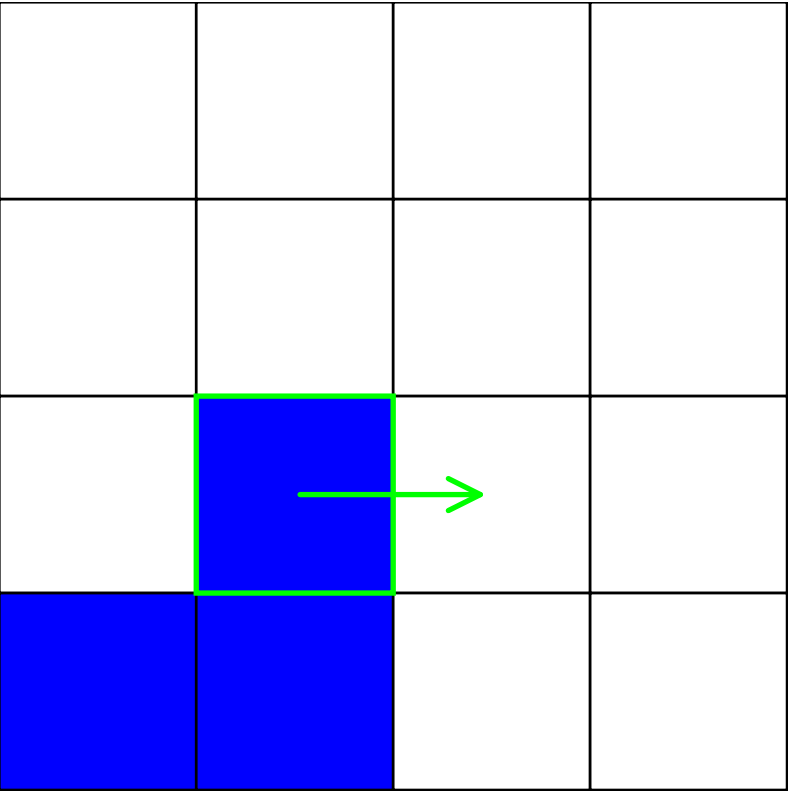


...:SOLUTION:...: Solvable in 2 moves (blocks positions: {(2, 0): <Color: blue>, (3, 0): <Color: blue>, (3, 1): <Color: blue>})

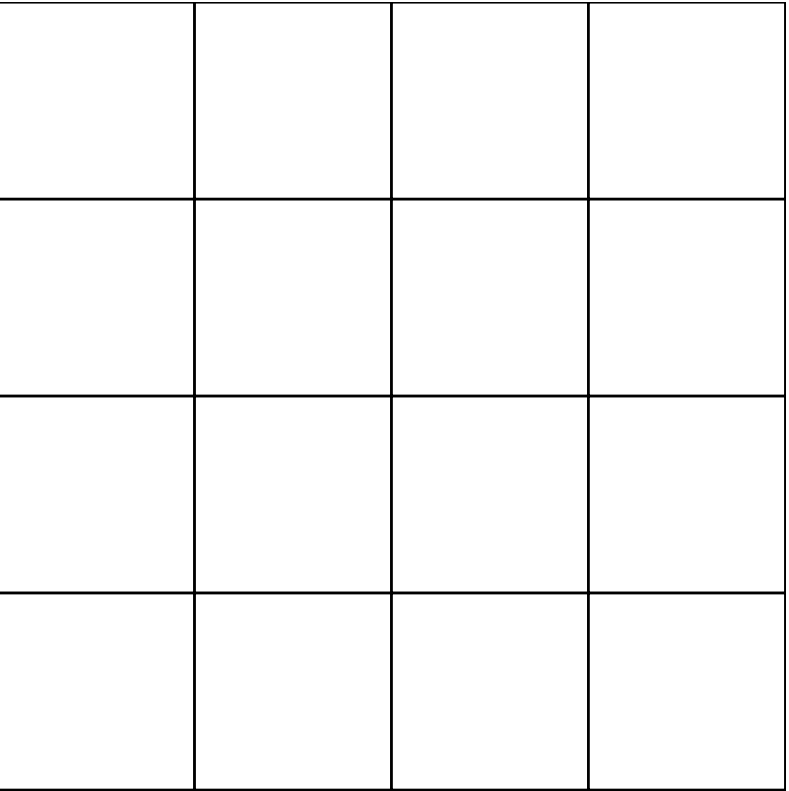
INITIAL STATE: (MOVE 1)
Perform: move_right at position: (2, 0):



(MOVE 2)
Perform: move_right at position: (2, 1):



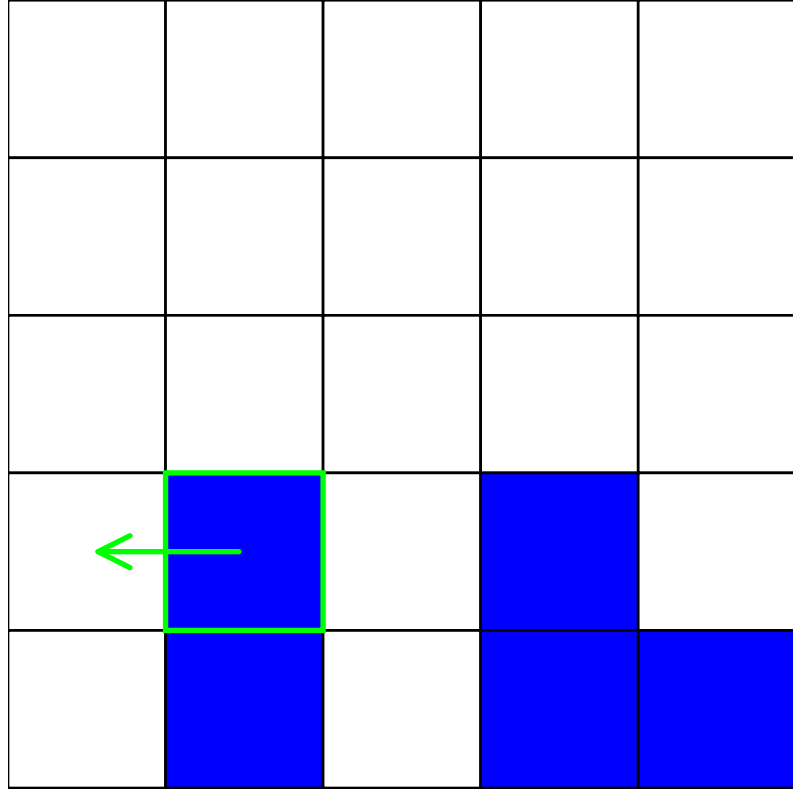
FINAL STATE



...::SOLUTION:...: Solvable in 2 moves (blocks positions: {(3, 1): <Color: blue>, (3, 3): <Color: blue>, (4, 1): <Color: blue>, (4, 3): <Color: blue>, (4, 4): <Color: blue>})

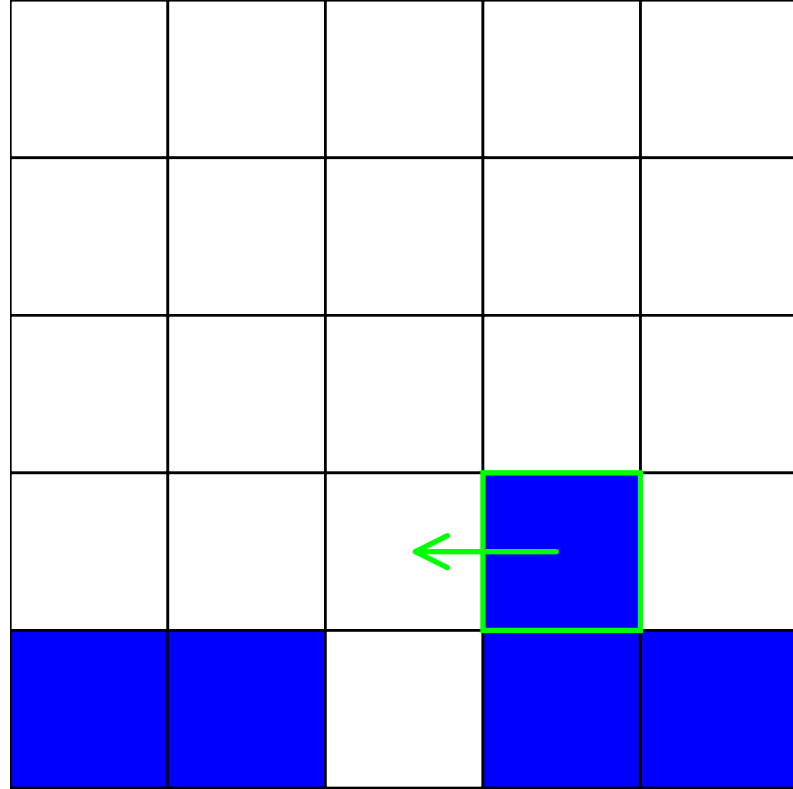
INITIAL STATE: (MOVE 1)

Perform: move_left at position: (3, 1):

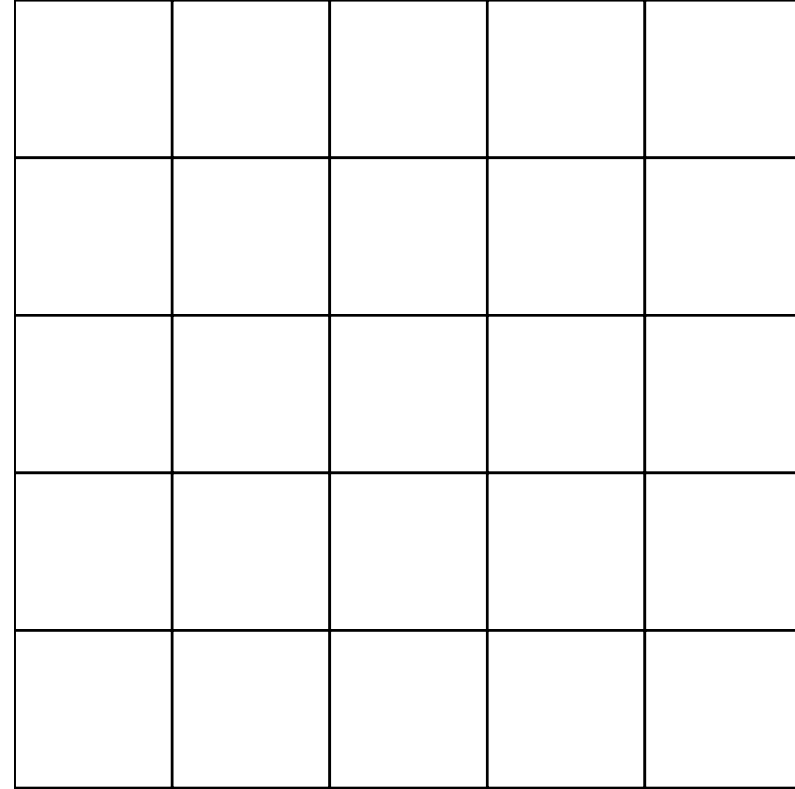


(MOVE 2)

Perform: move_left at position: (3, 3):



FINAL STATE



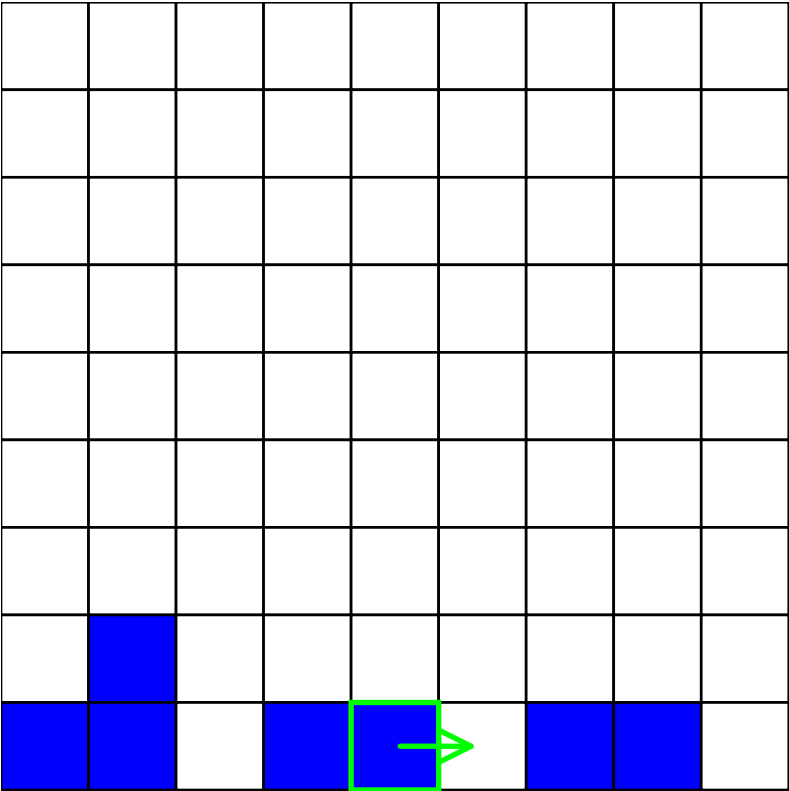
FINAL STATE

FINAL STATE

...:SOLUTION::...: Solvable in 2 moves (blocks positions: {(7, 1): <Color: blue>, (8, 0): <Color: blue>, (8, 1): <Color: blue>, (8, 3): <Color: blue>, (8, 4): <Color: blue>, (8, 6): <Color: blue>,

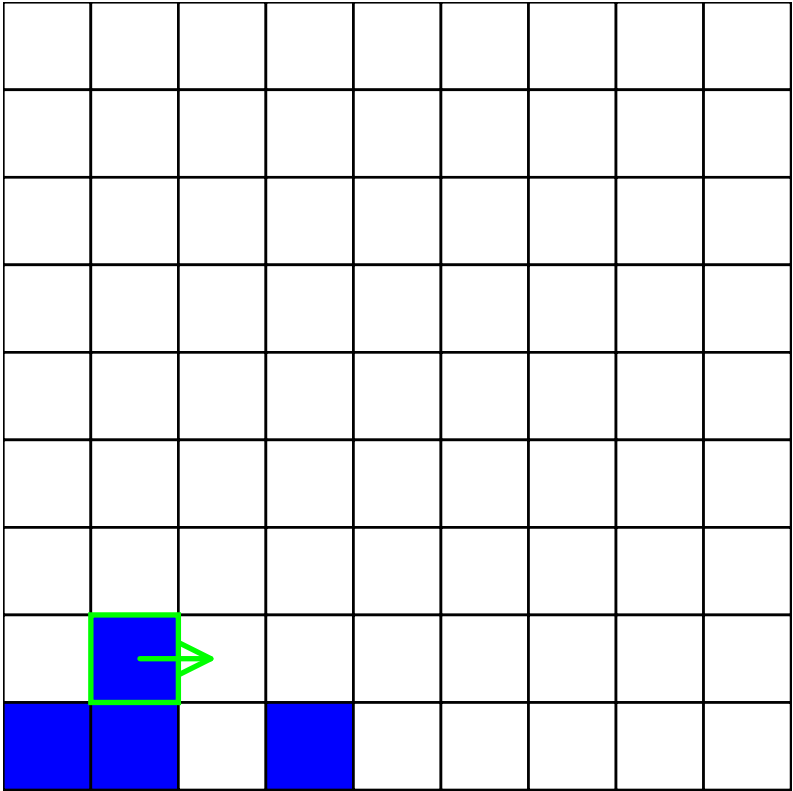
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (8, 4):

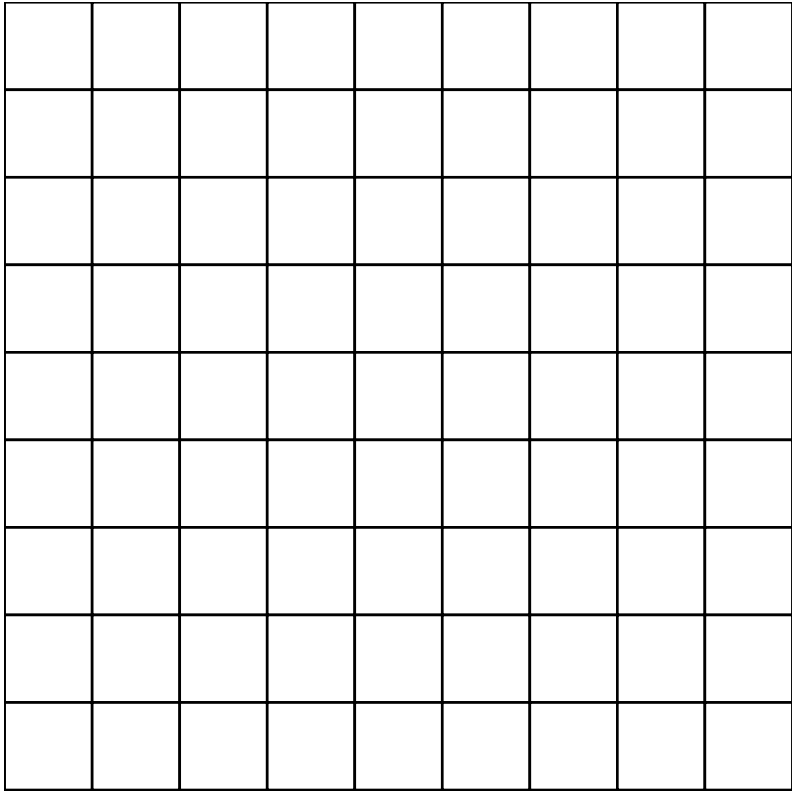


(MOVE 2)

Perform: move_right at position: (7, 1):



FINAL STATE



INITIAL STATE: (MOVE 1)

A 10x10 grid with a blue path and a green arrow. The path starts at the bottom-left corner (row 10, column 1) and moves right to (row 10, column 4). From there, it moves up to (row 9, column 4), then right to (row 9, column 5), then up to (row 8, column 5), and finally right to (row 8, column 6). A green arrow points from the cell at (row 8, column 5) to the cell at (row 8, column 6). The cells at (row 10, column 1), (row 10, column 2), (row 10, column 3), (row 9, column 4), (row 9, column 5), (row 8, column 5), and (row 8, column 6) are blue. All other cells are white.

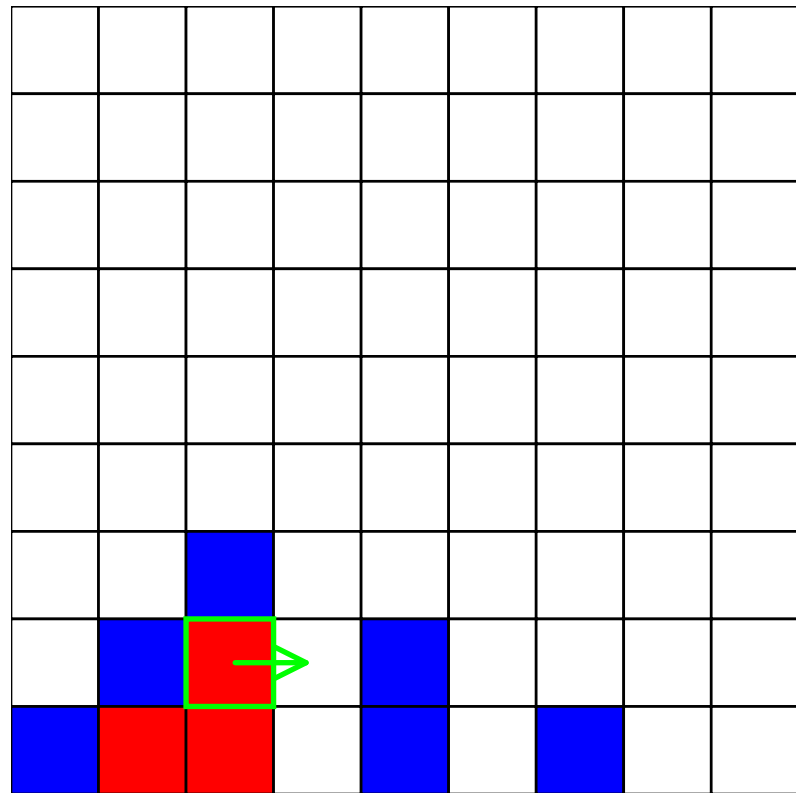
A 10x10 grid with a blue square at (row 8, col 6) and a green square at (row 8, col 10). A green arrow points from the green square to the blue square.

[illegible]

...::SOLUTION:...: Solvable in 2 moves (blocks positions: {(6, 2): <Color: blue>, (7, 1): <Color: blue>, (7, 2): <Color: red>, (7, 4): <Color: blue>, (8, 0): <Color: blue>, (8, 1): <Color: red>, (8, 2): <Color: blue>, (8, 3): <Color: red>, (8, 4): <Color: blue>, (8, 5): <Color: red>, (8, 6): <Color: blue>, (8, 7): <Color: red>, (8, 8): <Color: blue>, (8, 9): <Color: red>, (9, 0): <Color: blue>, (9, 1): <Color: red>, (9, 2): <Color: blue>, (9, 3): <Color: red>, (9, 4): <Color: blue>, (9, 5): <Color: red>, (9, 6): <Color: blue>, (9, 7): <Color: red>, (9, 8): <Color: blue>, (9, 9): <Color: red>})

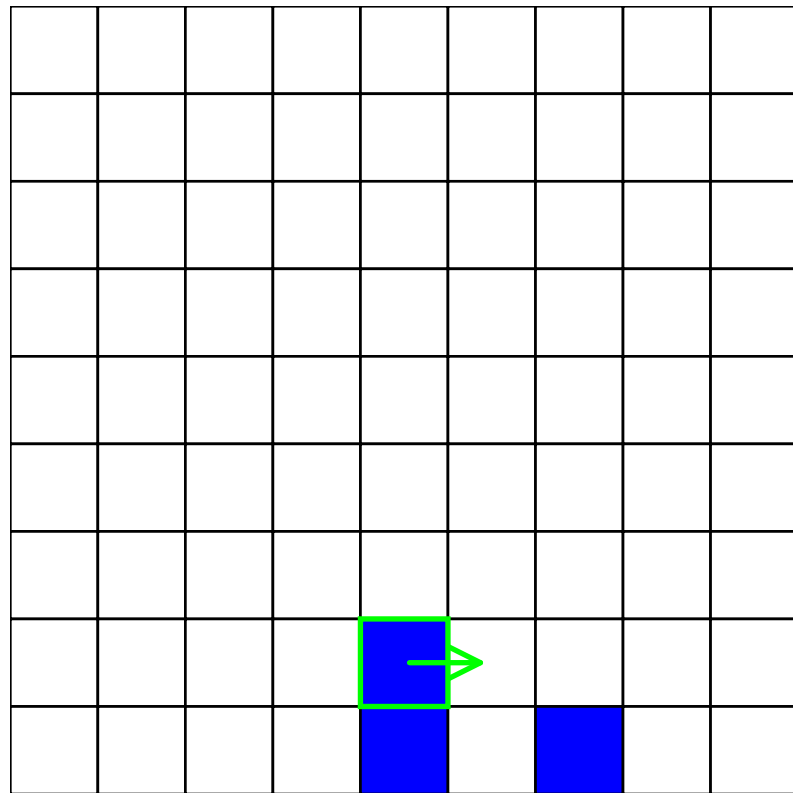
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (7, 2):

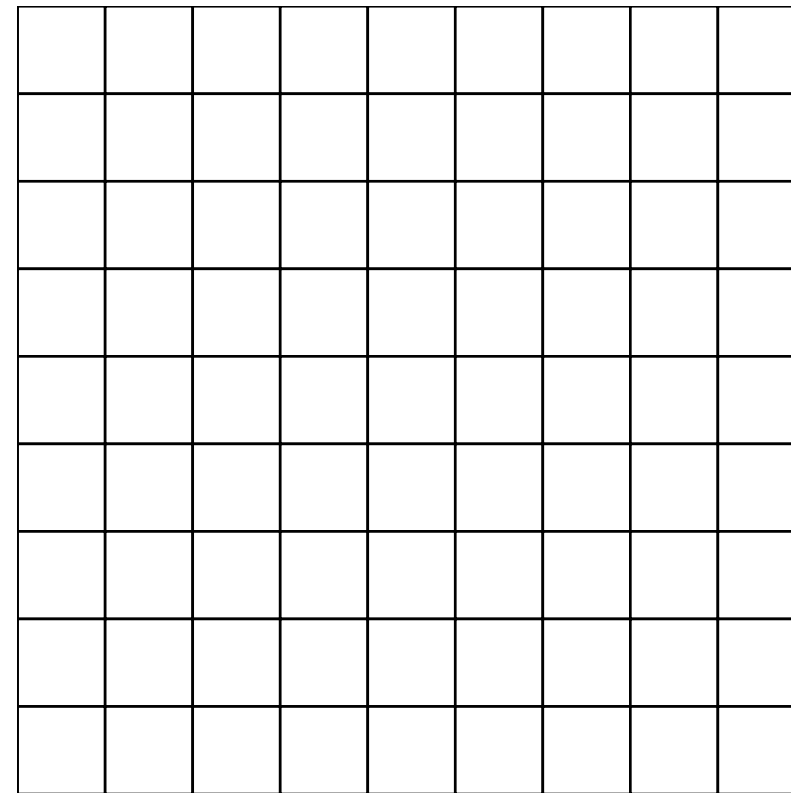


(MOVE 2)

Perform: move_right at position: (7, 4):



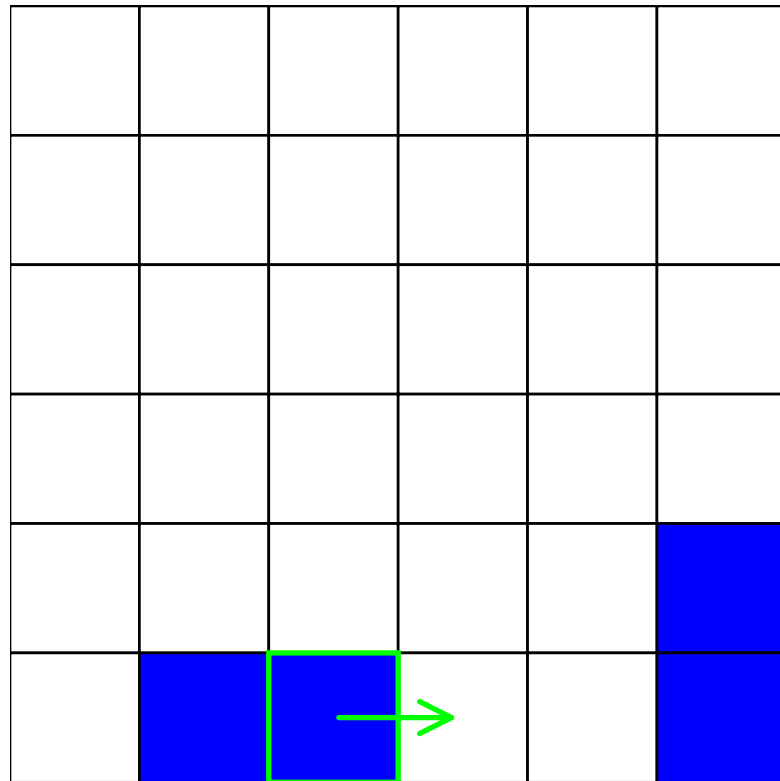
FINAL STATE



...:SOLUTION:...: Solvable in 3 moves (blocks positions: {(4, 5): <Color: blue>, (5, 1): <Color: blue>, (5, 2): <Color: blue>, (5, 5): <Color: blue>})

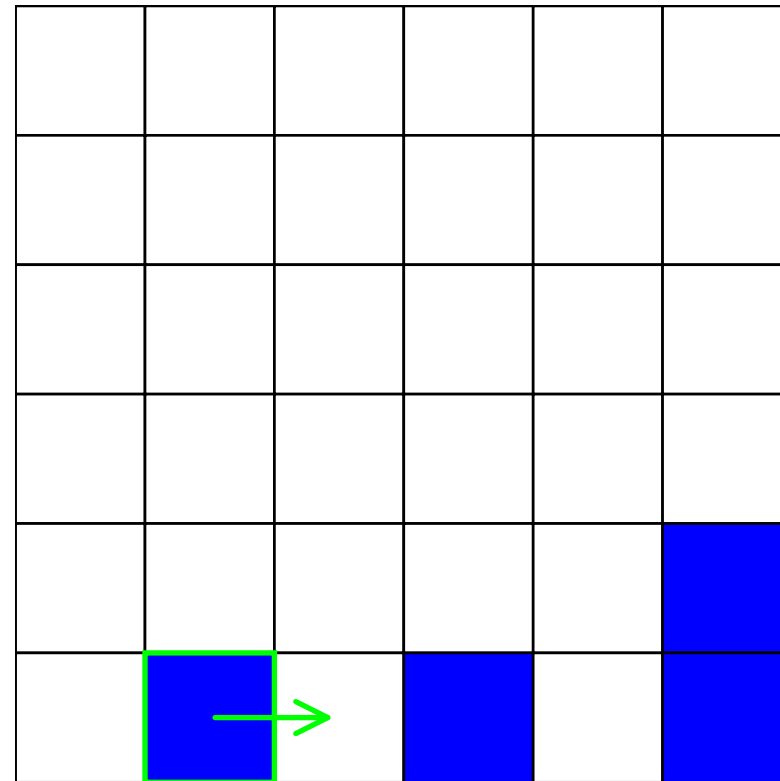
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (5, 2):



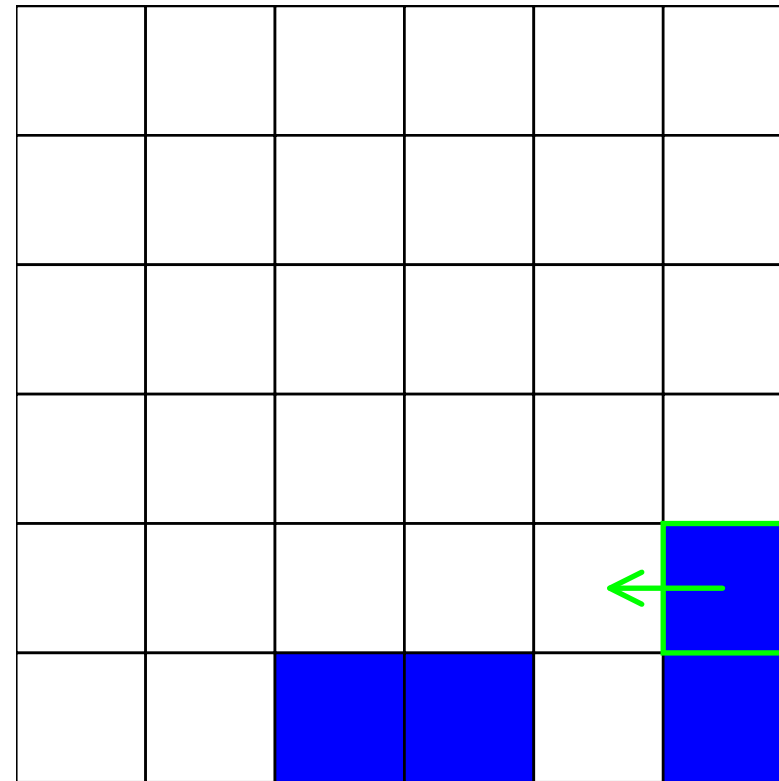
(MOVE 2)

Perform: move_right at position: (5, 1):

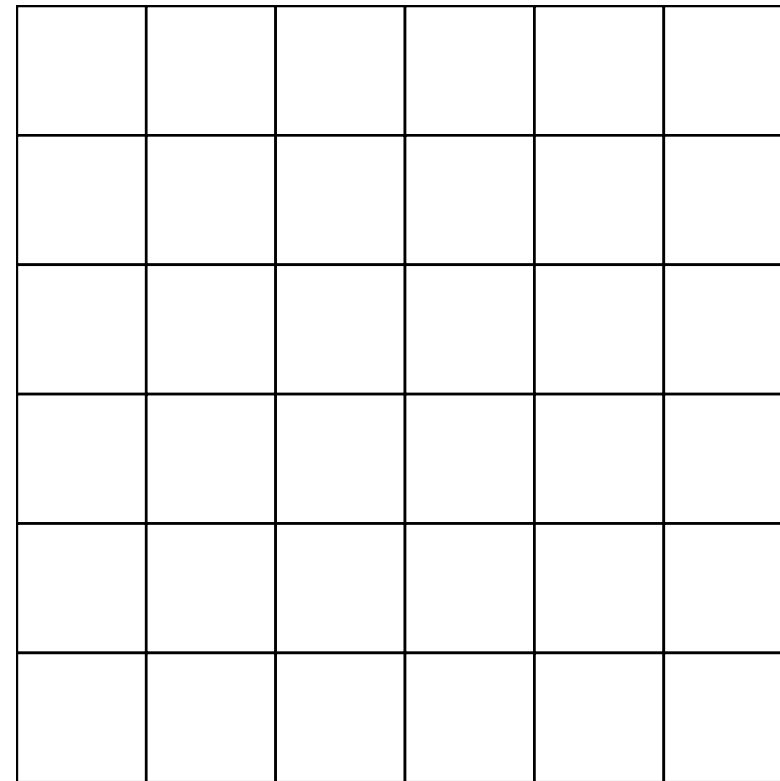


(MOVE 3)

Perform: move_left at position: (4, 5):



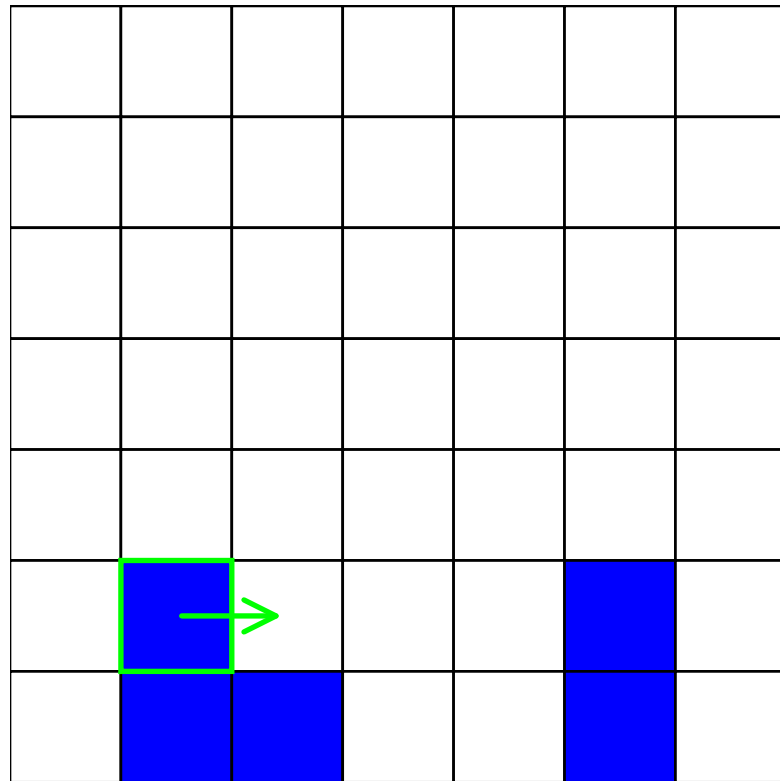
FINAL STATE



...:SOLUTION:...: Solvable in 3 moves (blocks positions: {(5, 1): <Color: blue>, (5, 5): <Color: blue>, (6, 1): <Color: blue>, (6, 2): <Color: blue>, (6, 5): <Color: blue>})

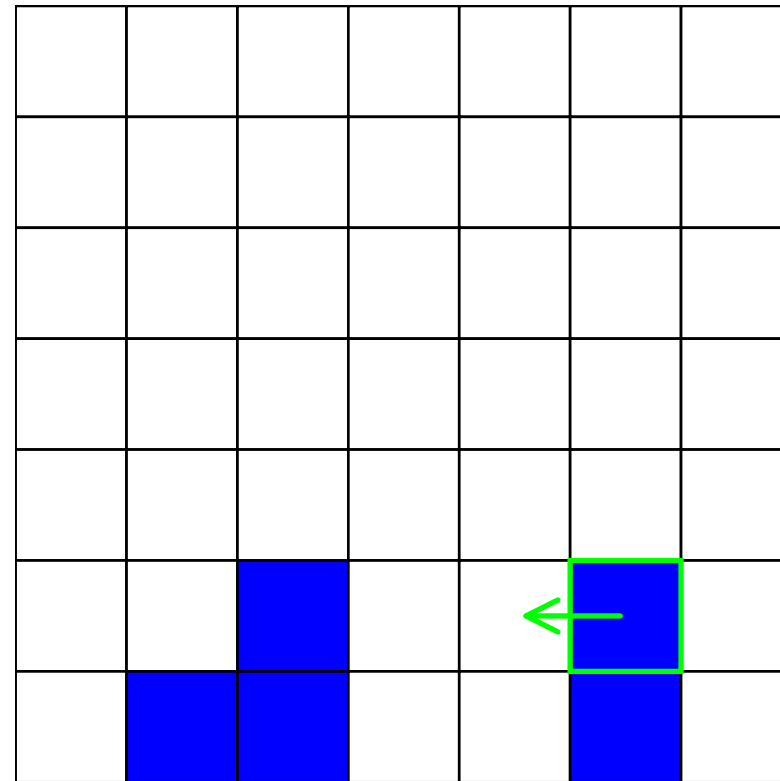
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (5, 1):



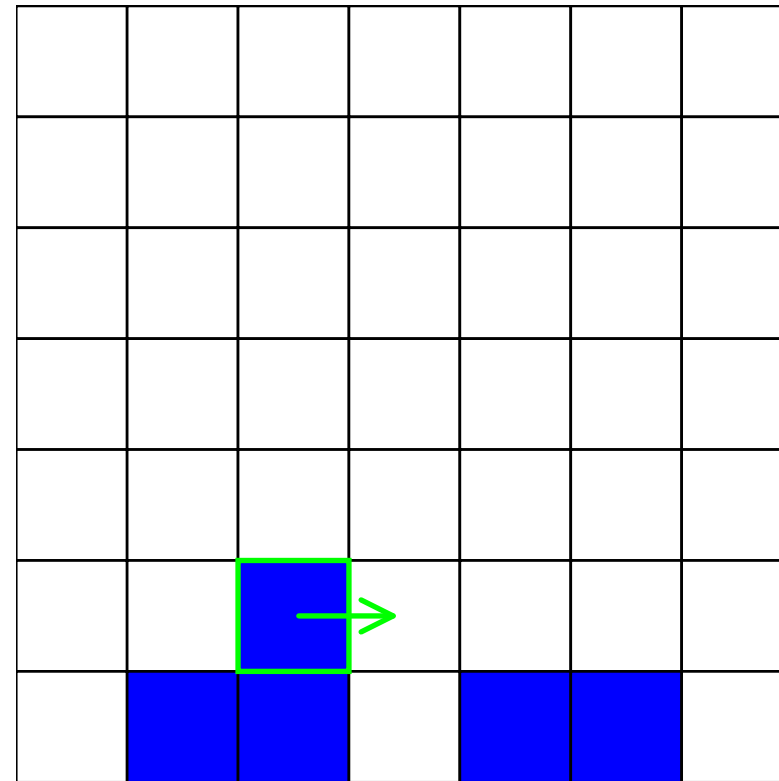
(MOVE 2)

Perform: move_left at position: (5, 5):

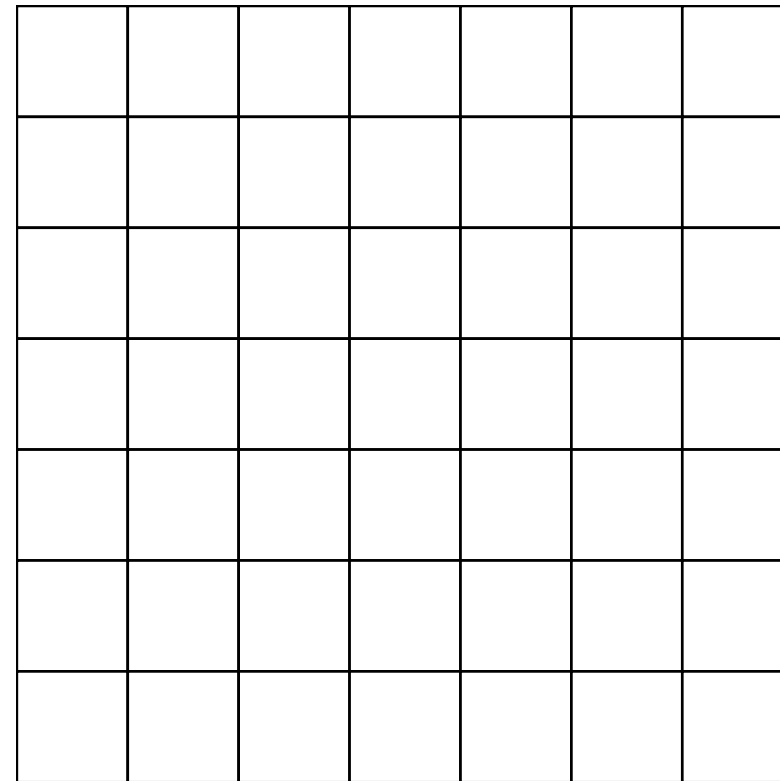


(MOVE 3)

Perform: move_right at position: (5, 2):



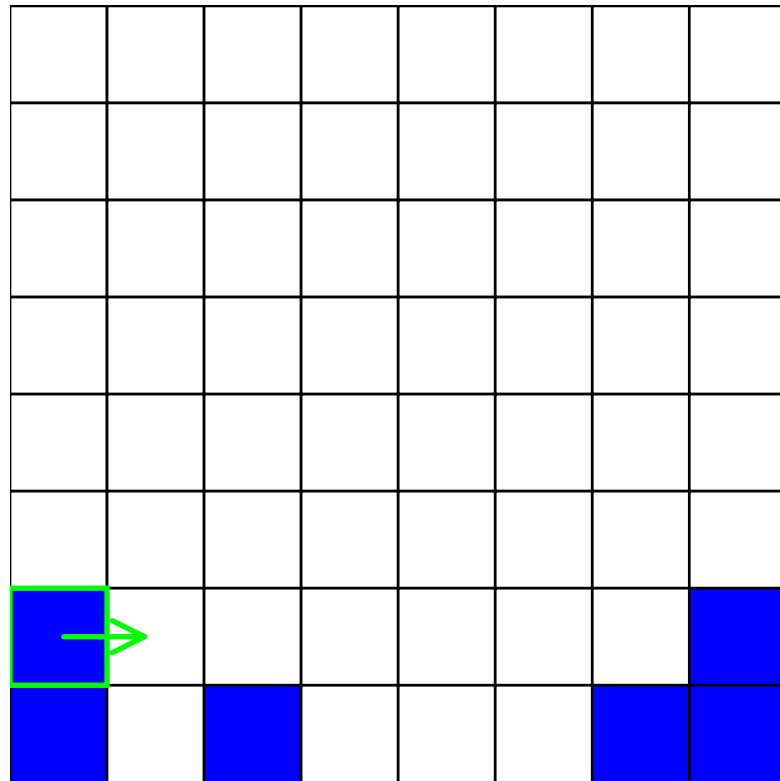
FINAL STATE



...:SOLUTION:...: Solvable in 3 moves (blocks positions: {(6, 0): <Color: blue>, (6, 7): <Color: blue>, (7, 0): <Color: blue>, (7, 2): <Color: blue>, (7, 6): <Color: blue>, (7, 7): <Color: blue>})

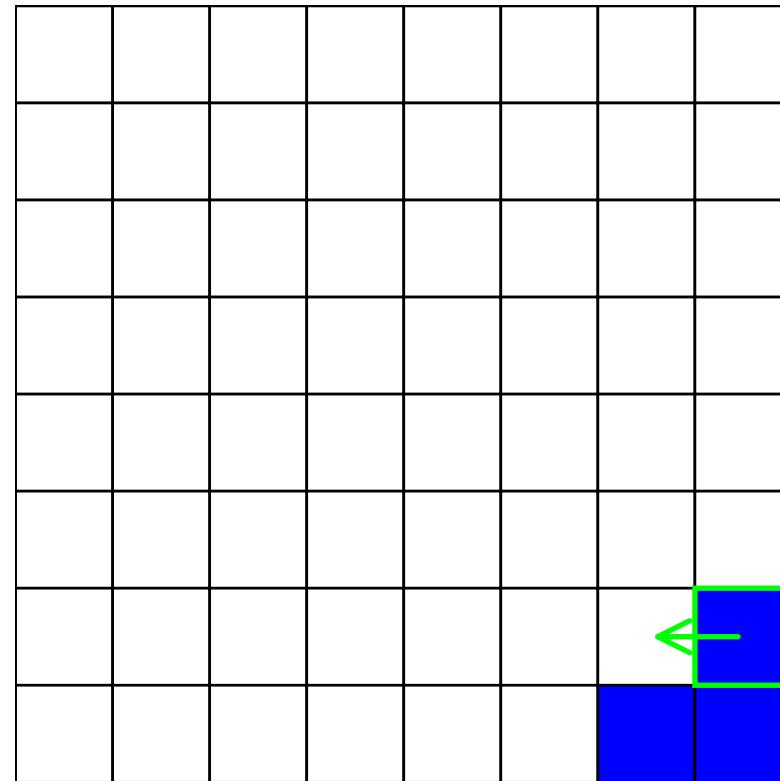
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (6, 0):



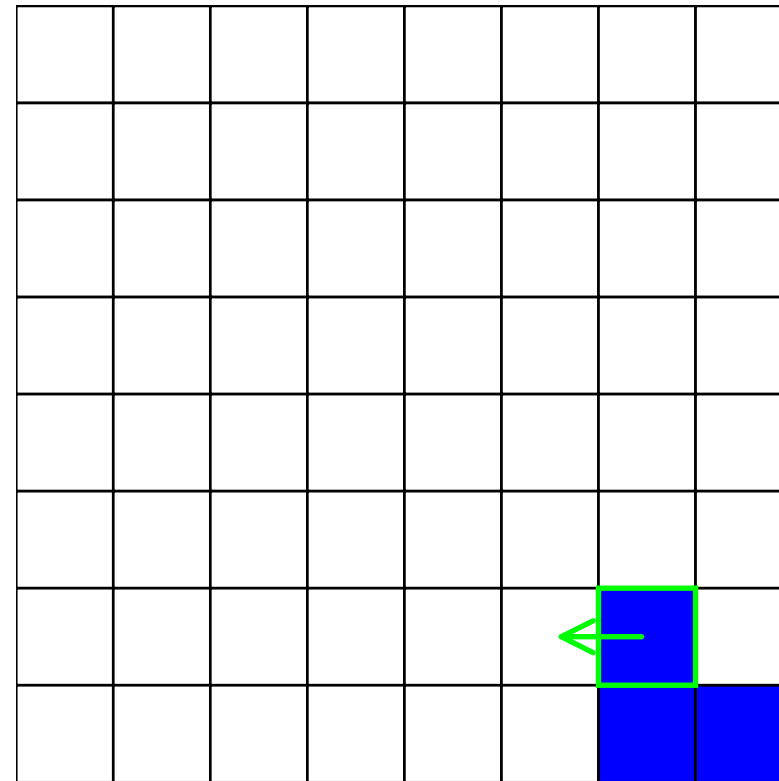
(MOVE 2)

Perform: move_left at position: (6, 7):

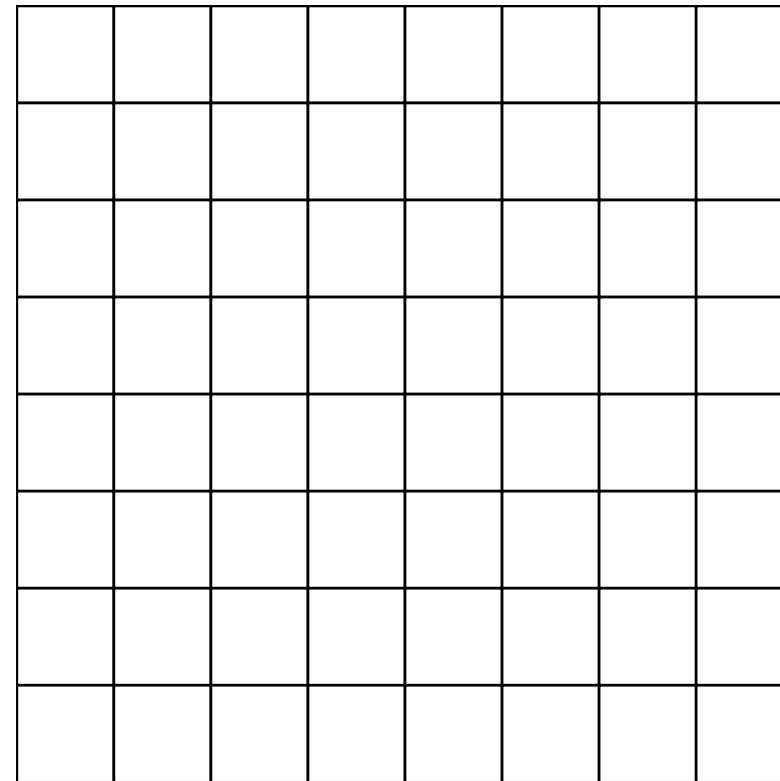


(MOVE 3)

Perform: move_left at position: (6, 6):

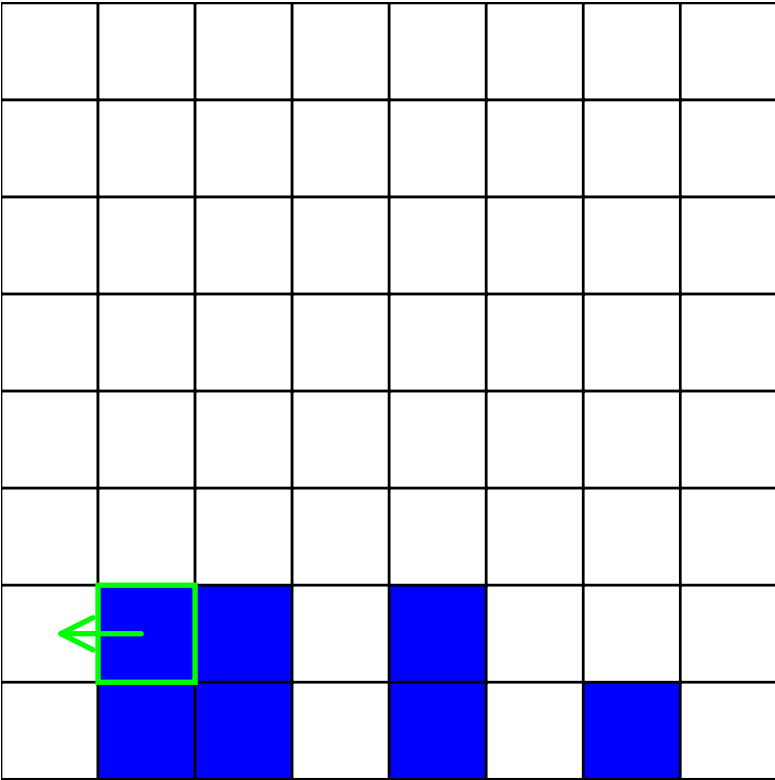


FINAL STATE

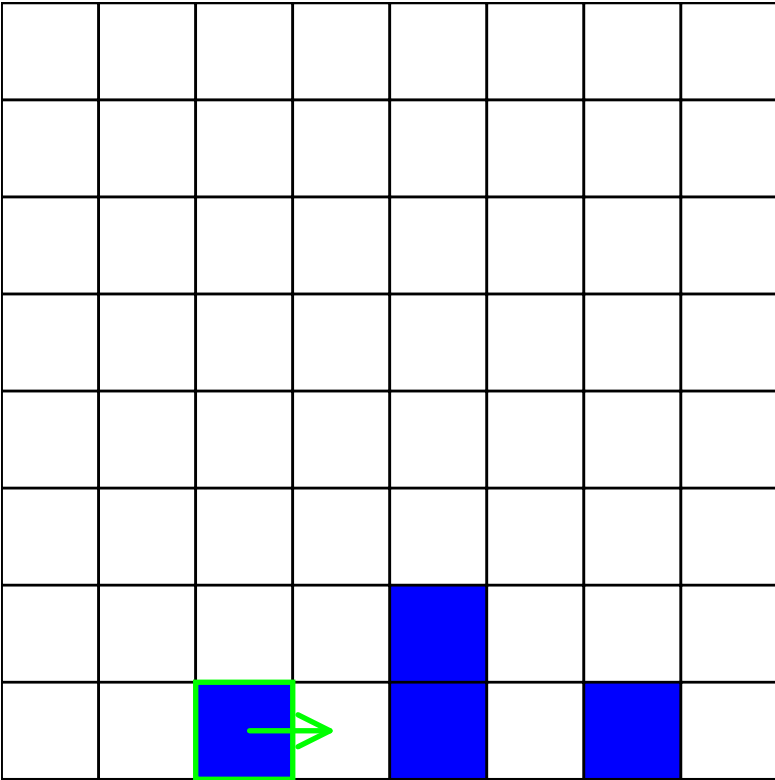


...:SOLUTION::...: Solvable in 3 moves (blocks positions: {(6, 1): <Color: blue>, (6, 2): <Color: blue>, (6, 4): <Color: blue>, (7, 1): <Color: blue>, (7, 2): <Color: blue>, (7, 4): <Color: blue>, (7, 6): <Color: blue>})

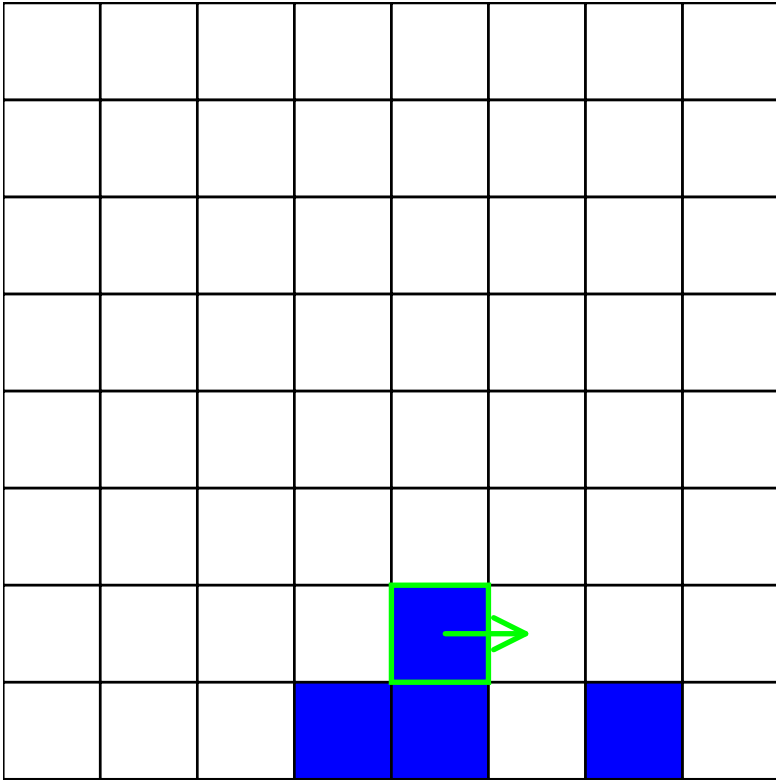
INITIAL STATE: (MOVE 1)
Perform: move_left at position: (6, 1):



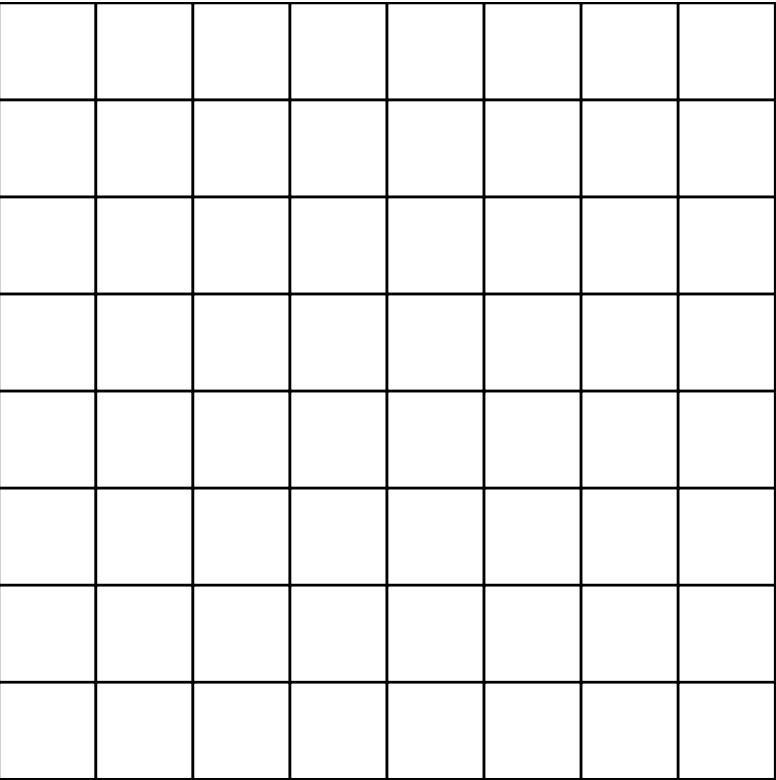
(MOVE 2)
Perform: move_right at position: (7, 2):



(MOVE 3)
Perform: move_right at position: (6, 4):



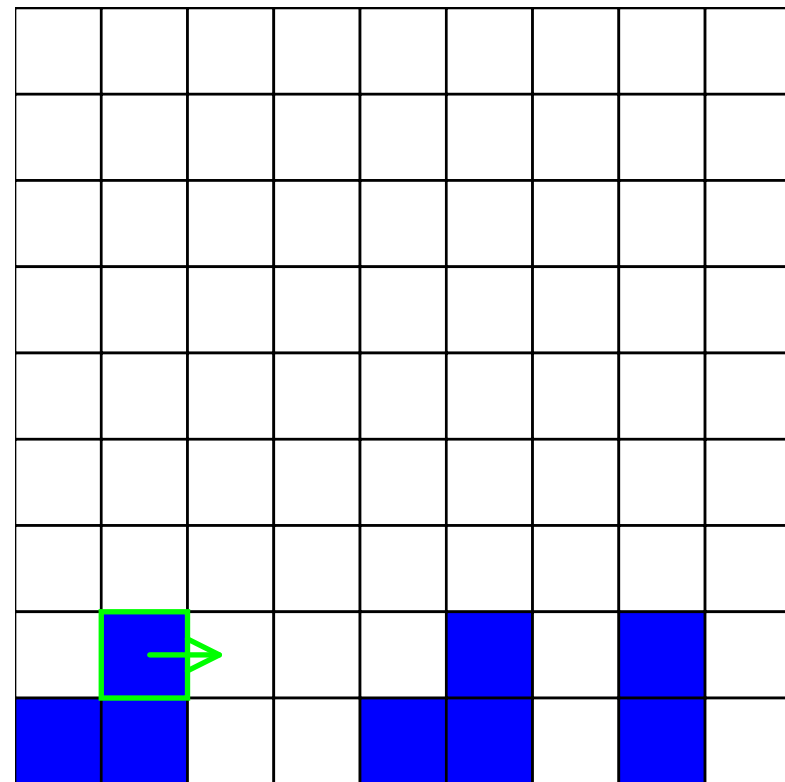
FINAL STATE



...:SOLUTION:...: Solvable in 3 moves (blocks positions: {(7, 1): <Color: blue>, (7, 5): <Color: blue>, (7, 7): <Color: blue>, (8, 0): <Color: blue>, (8, 1): <Color: blue>, (8, 4): <Color: blue>, (8, 5): <Color: blue>, (8, 7): <Color: blue>})

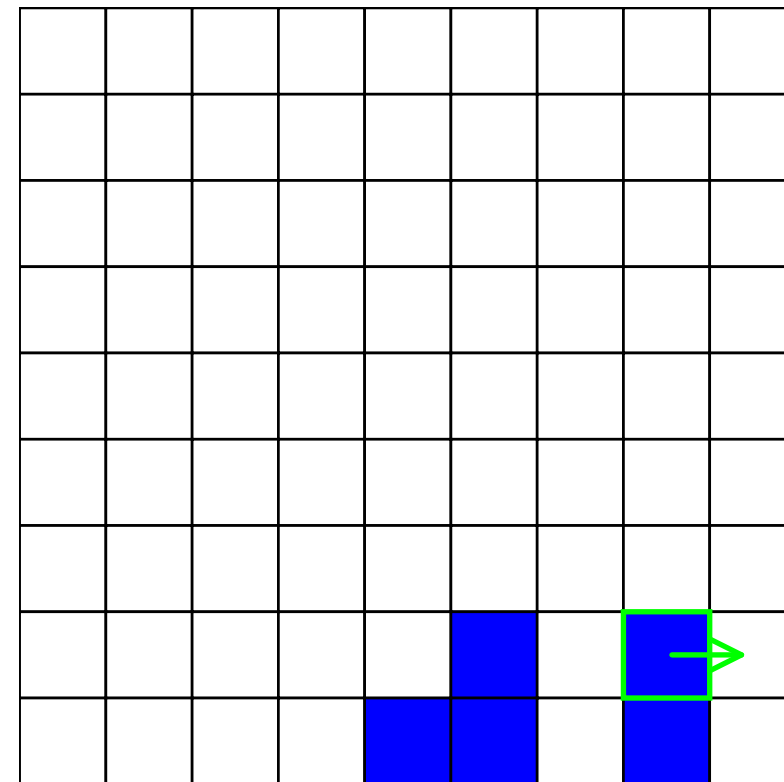
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (7, 1):



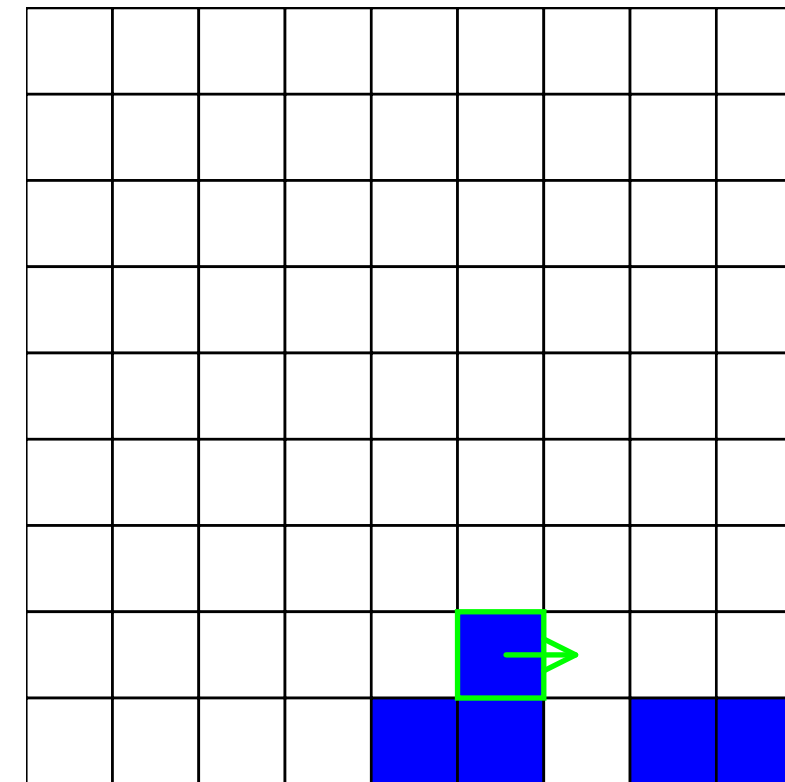
(MOVE 2)

Perform: move_right at position: (7, 7):

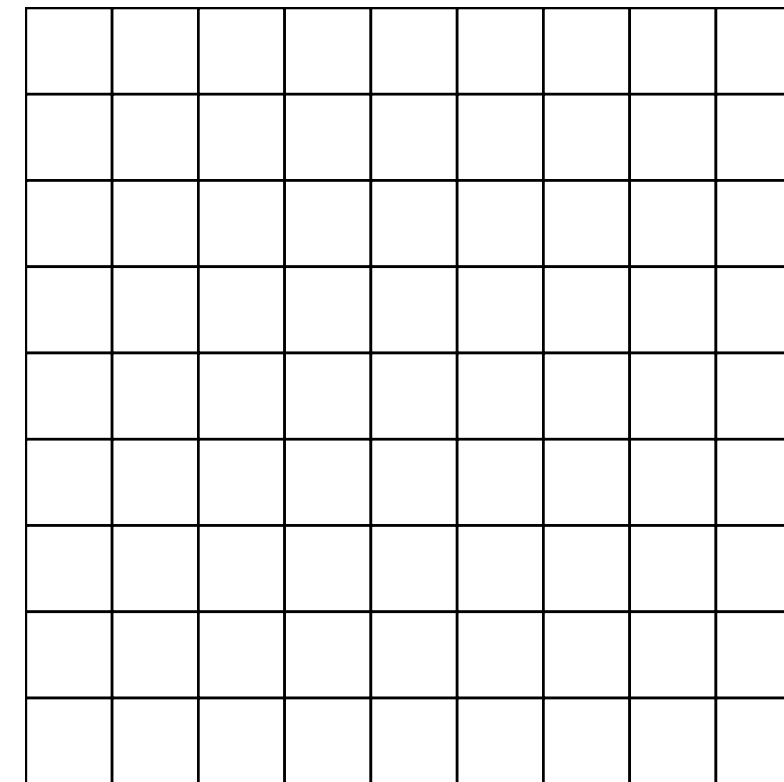


(MOVE 3)

Perform: move_right at position: (7, 5):



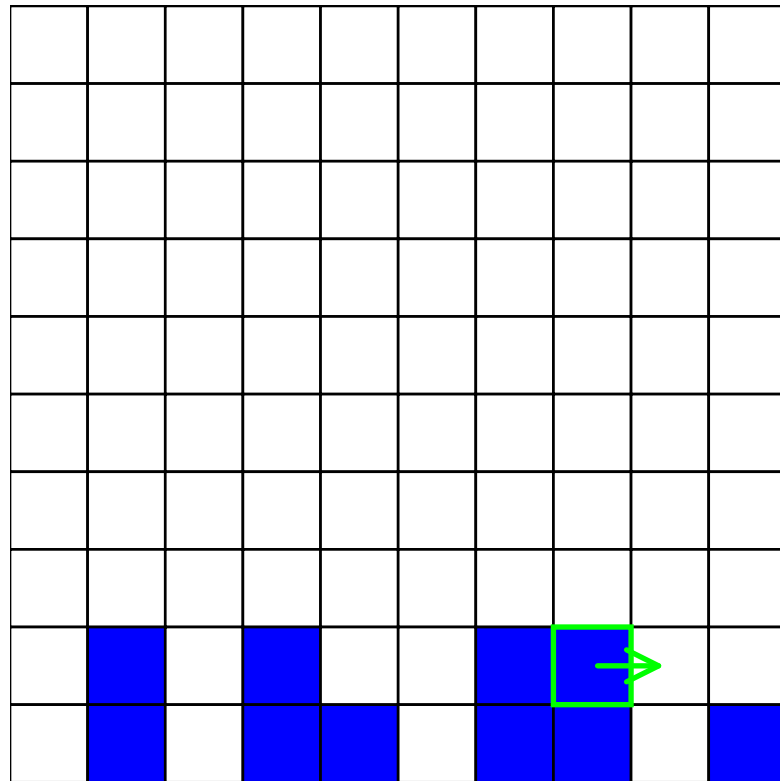
FINAL STATE



...:SOLUTION:...: Solvable in 3 moves (blocks positions: {(8, 1): <Color: blue>, (8, 3): <Color: blue>, (8, 6): <Color: blue>, (8, 7): <Color: blue>, (9, 1): <Color: blue>, (9, 3): <Color: blue>, (9, 4): <Color: blue>, (9, 6): <Color: blue>, (9, 7): <Color: blue>}

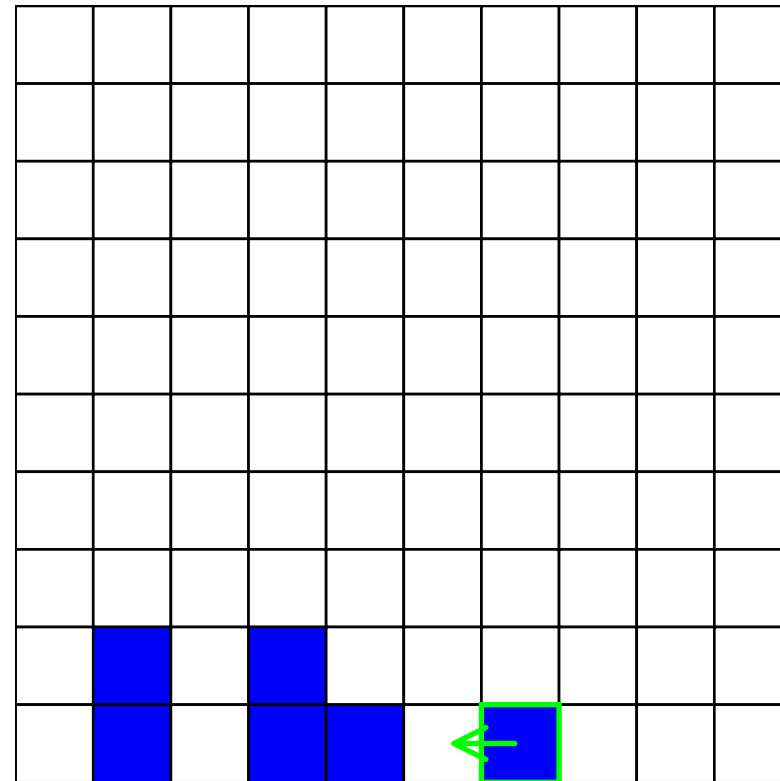
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (8, 7):



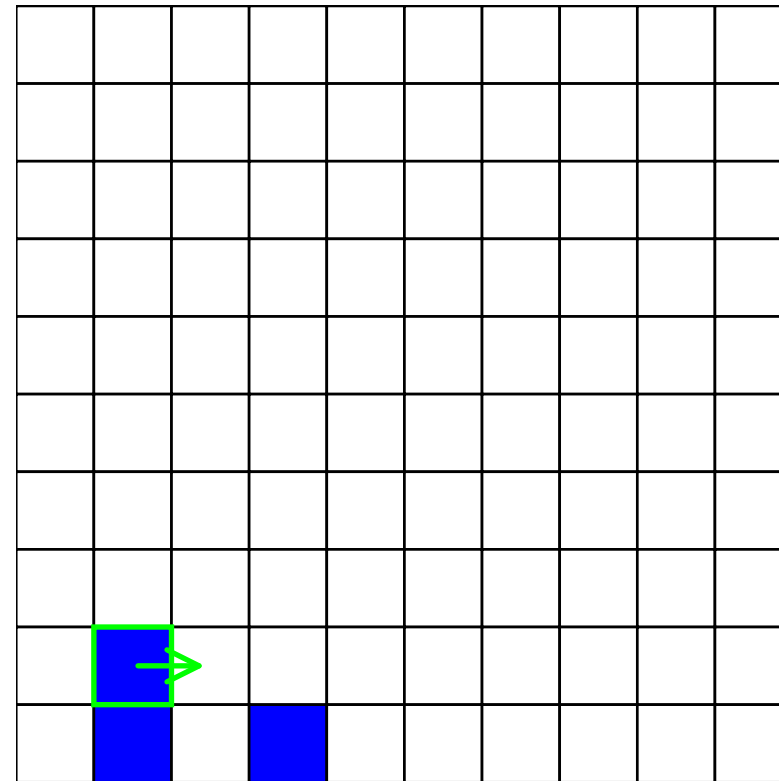
(MOVE 2)

Perform: move_left at position: (9, 6):

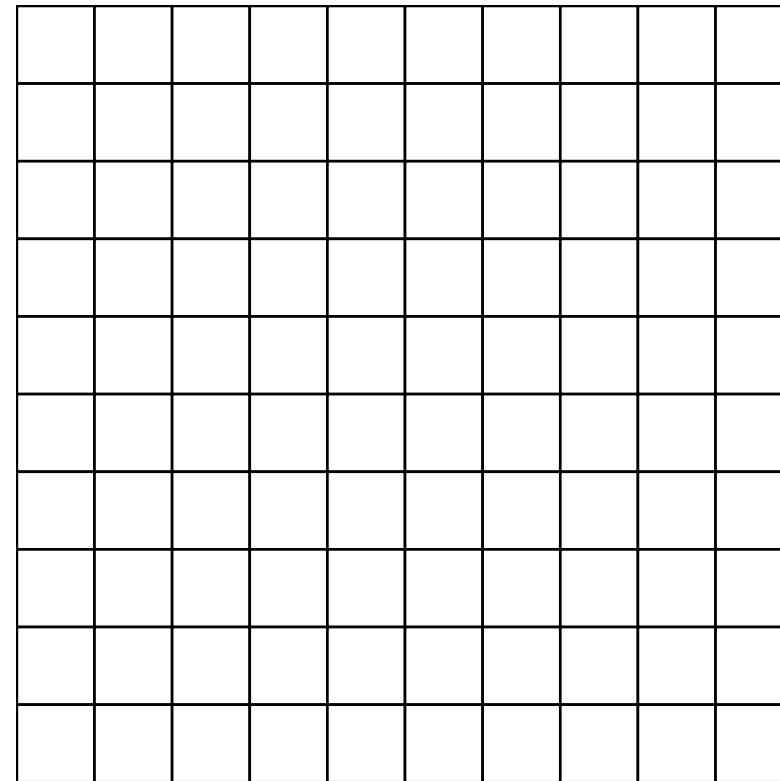


(MOVE 3)

Perform: move_right at position: (8, 1):

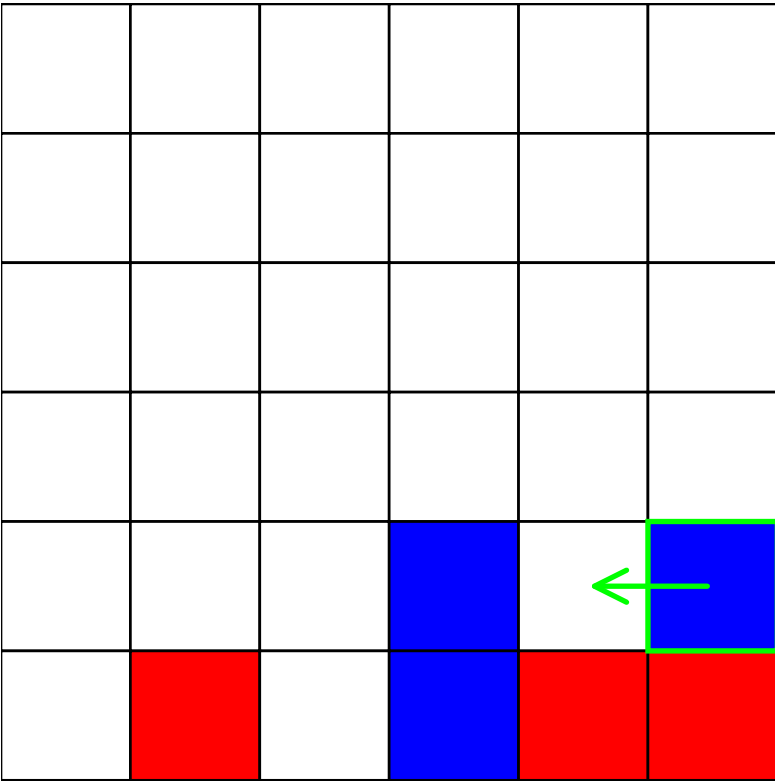


FINAL STATE

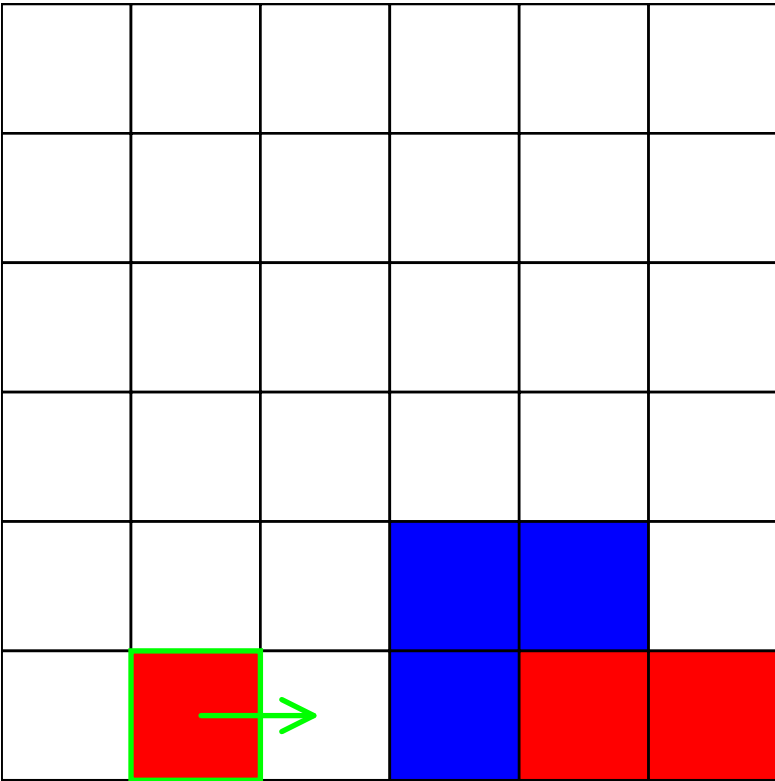


...:SOLUTION::...: Solvable in 3 moves (blocks positions: {(4, 3): <Color: blue>, (4, 5): <Color: blue>, (5, 1): <Color: red>, (5, 3): <Color: blue>, (5, 4): <Color: red>, (5, 5): <Color: red>})

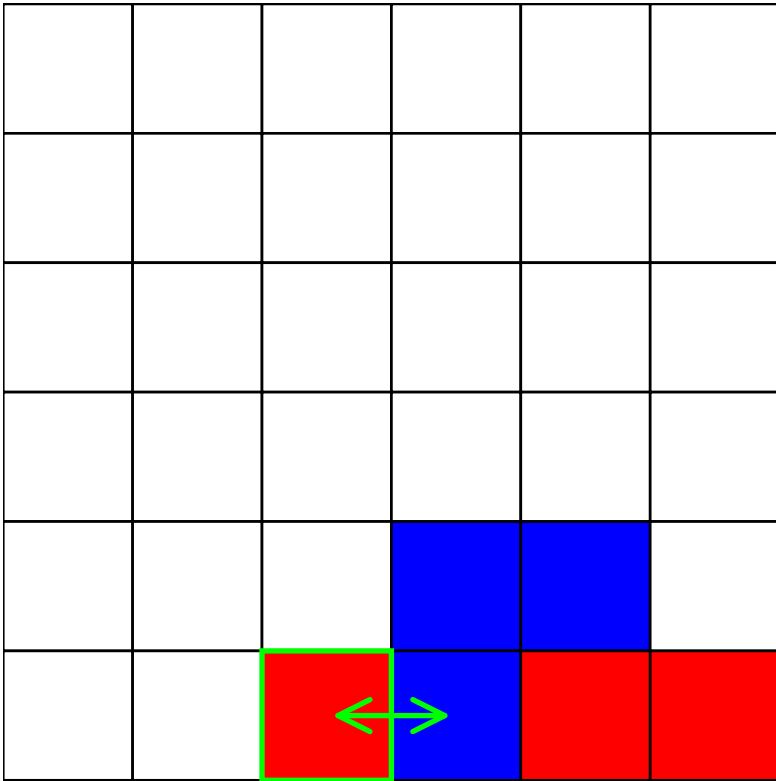
INITIAL STATE: (MOVE 1)
Perform: move_left at position: (4, 5):



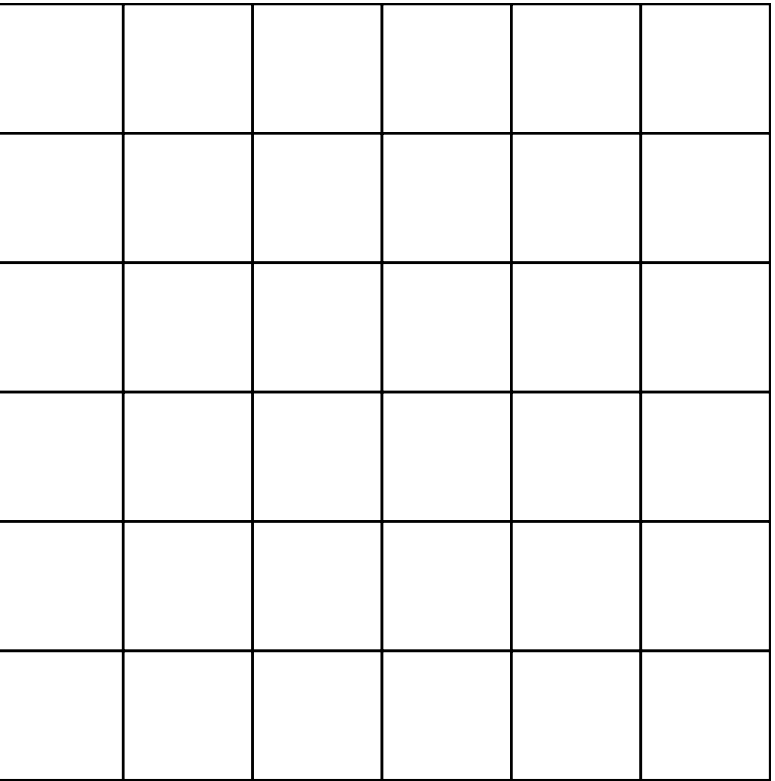
(MOVE 2)
Perform: move_right at position: (5, 1):



(MOVE 3)
Perform: exchange_right at position: (5, 2):

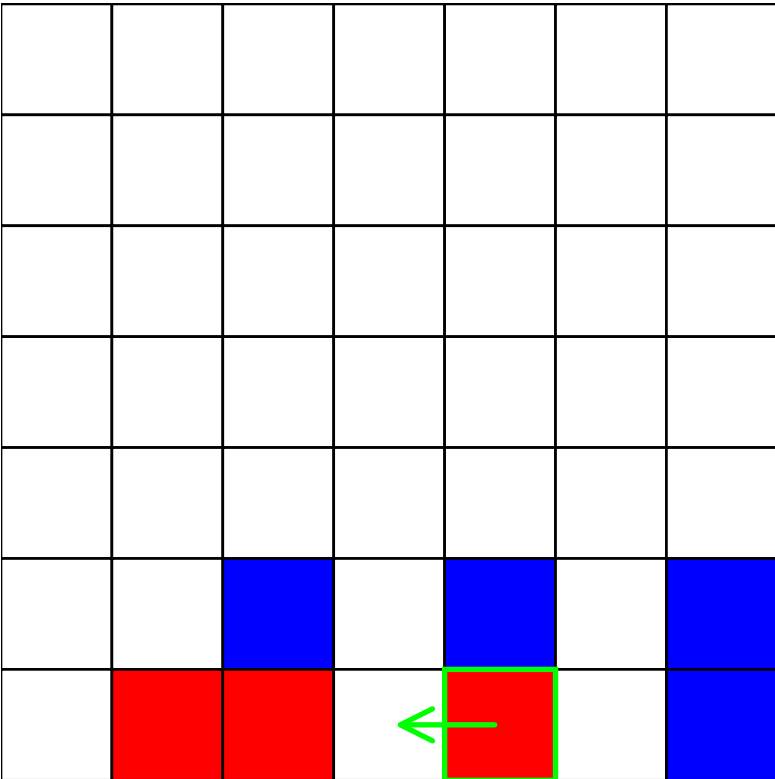


FINAL STATE

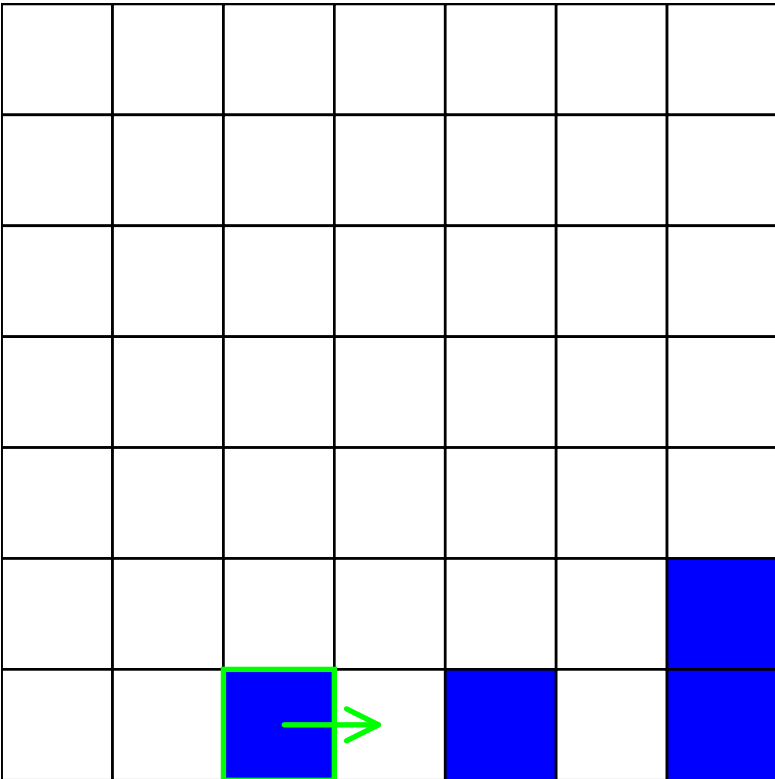


...:SOLUTION::...: Solvable in 3 moves (blocks positions: {(5, 2): <Color: blue>, (5, 4): <Color: blue>, (5, 6): <Color: blue>, (6, 1): <Color: red>, (6, 2): <Color: red>, (6, 4): <Color: red>, (6, 6): <Color: blue>})

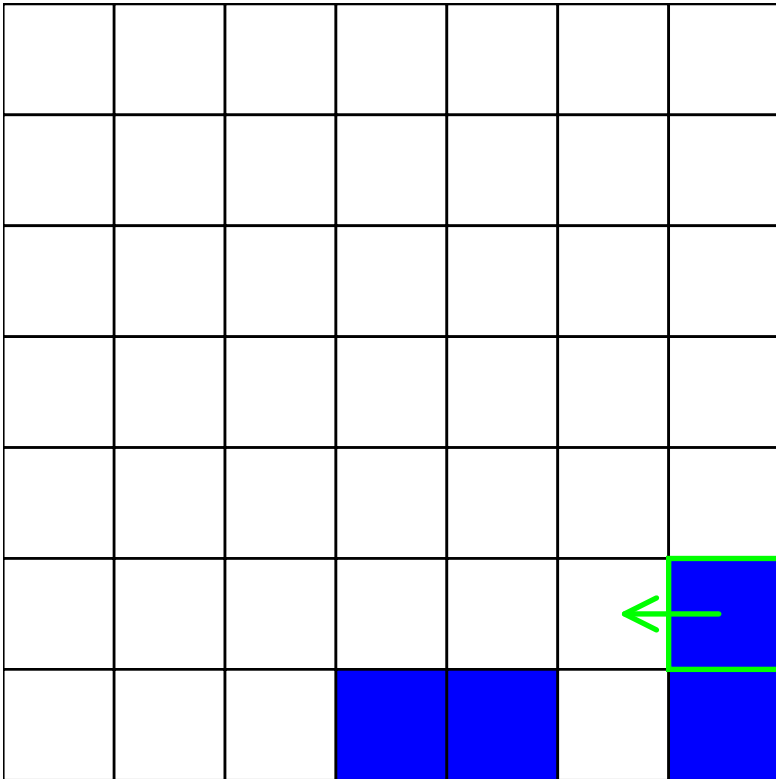
INITIAL STATE: (MOVE 1)
Perform: move_left at position: (6, 4):



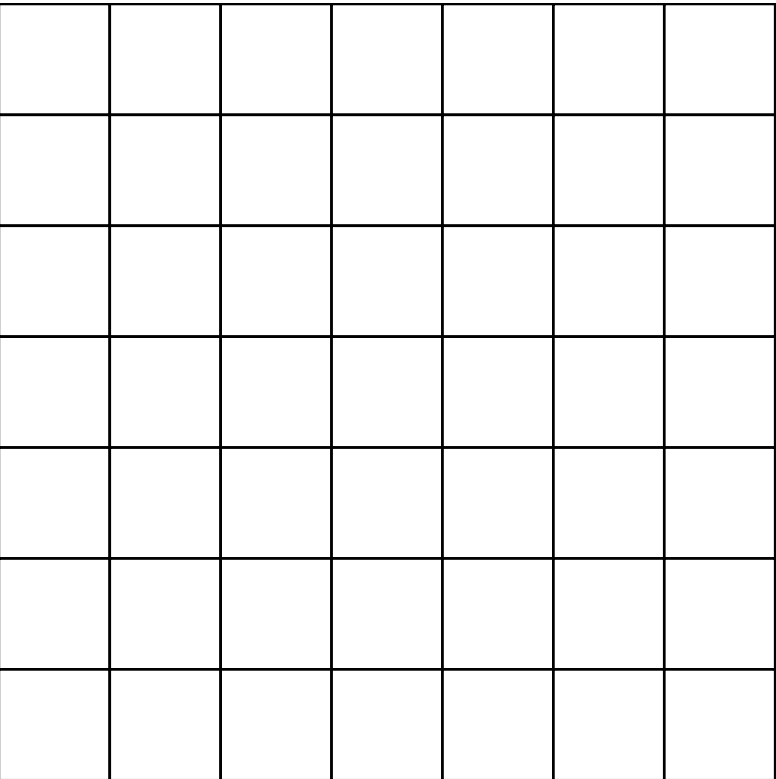
(MOVE 2)
Perform: move_right at position: (6, 2):



(MOVE 3)
Perform: move_left at position: (5, 6):



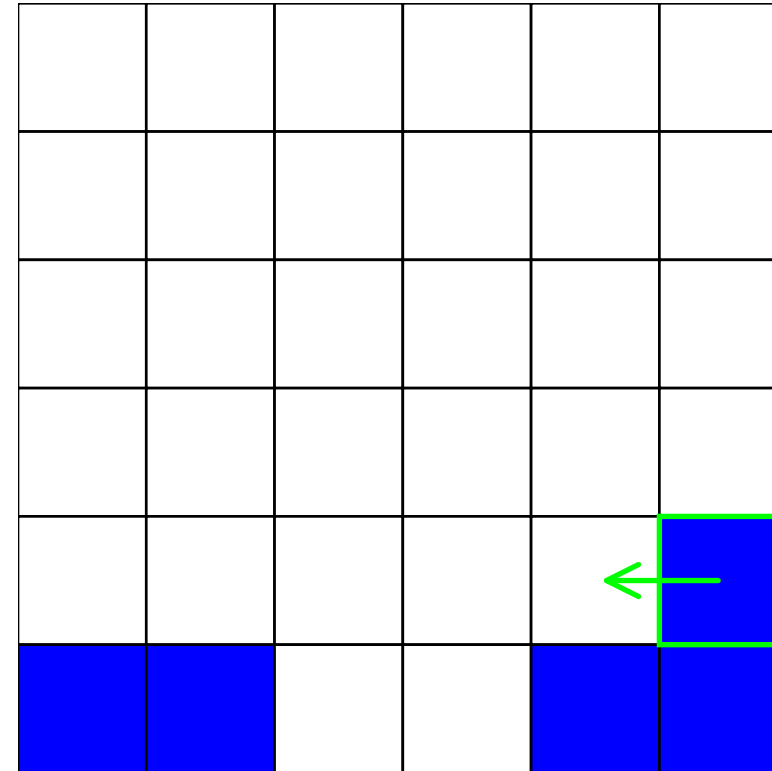
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(4, 5): <Color: blue>, (5, 0): <Color: blue>, (5, 1): <Color: blue>, (5, 4): <Color: blue>, (5, 5): <Color: blue>})

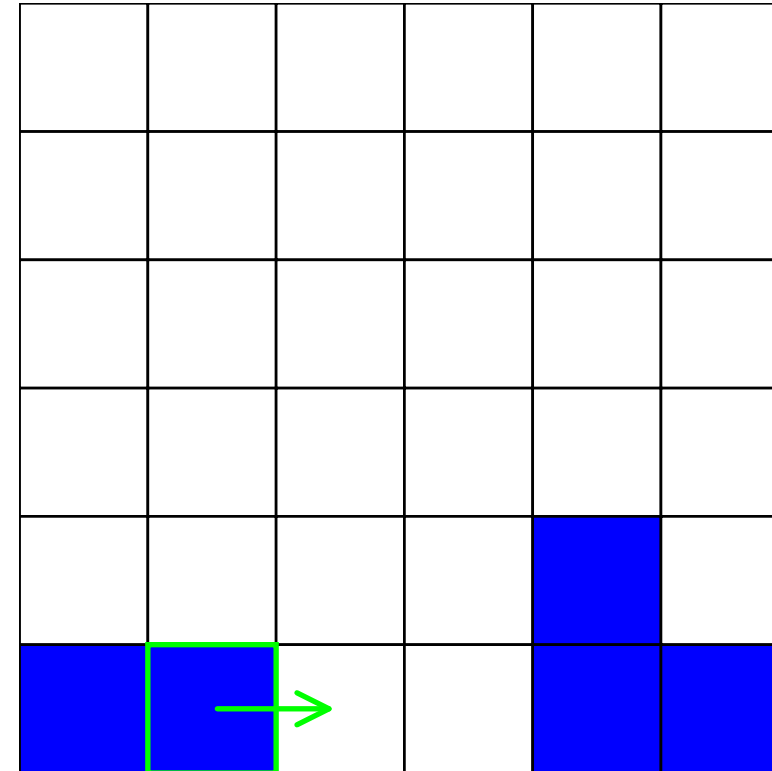
INITIAL STATE: (MOVE 1)

Perform: move_left at position: (4, 5):



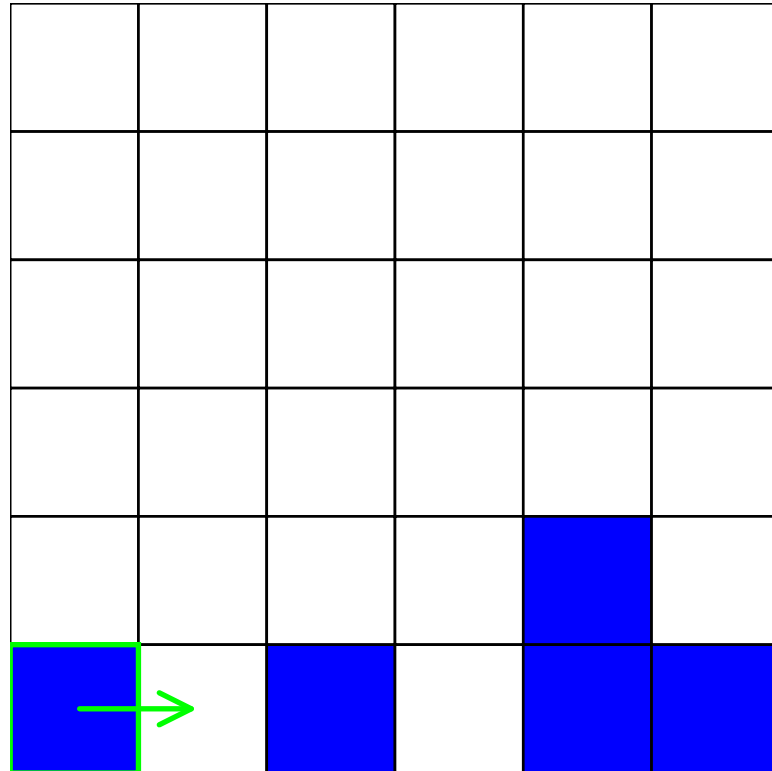
(MOVE 2)

Perform: move_right at position: (5, 1):



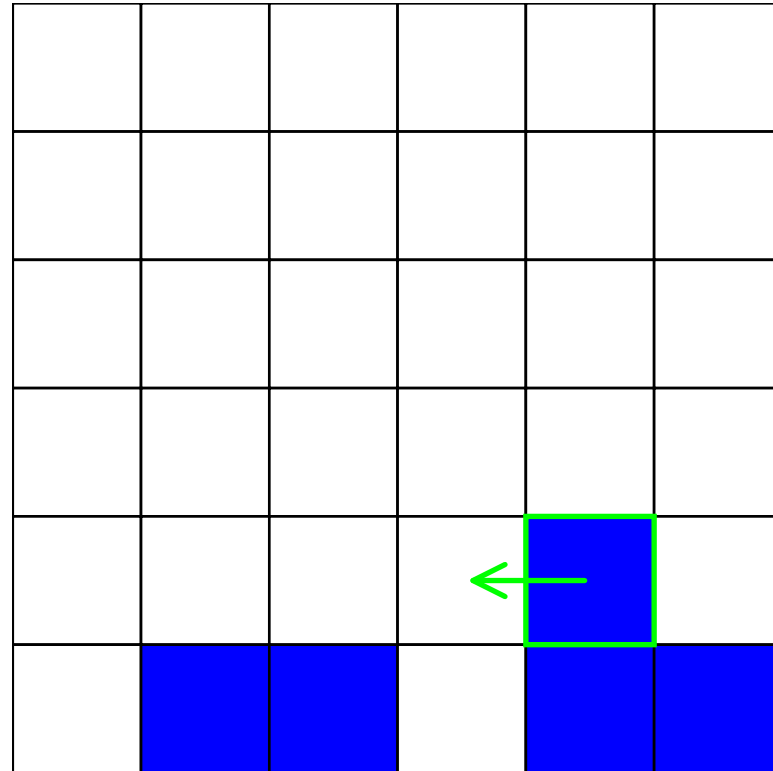
(MOVE 3)

Perform: move_right at position: (5, 0):

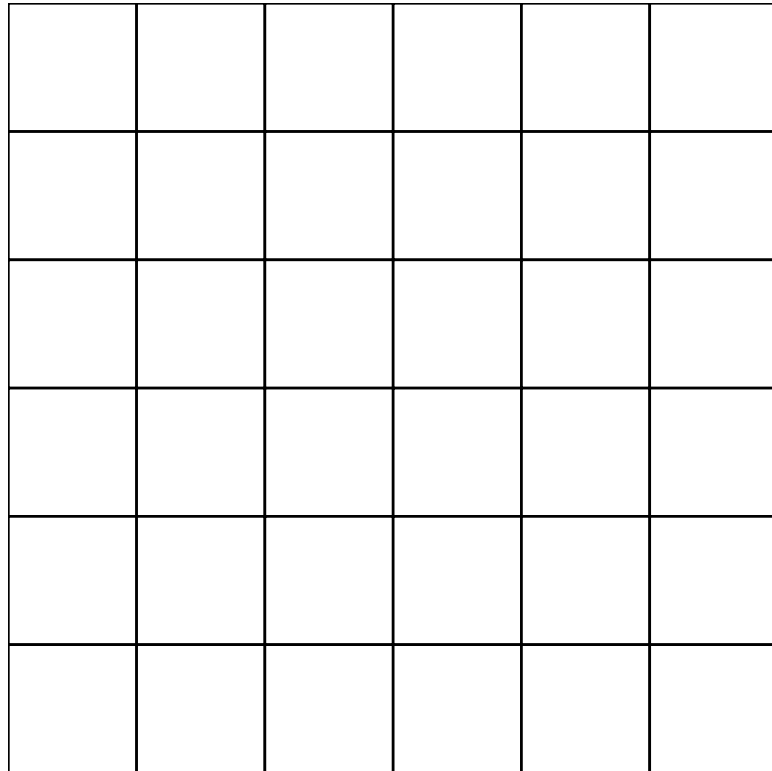


(MOVE 4)

Perform: move_left at position: (4, 4):



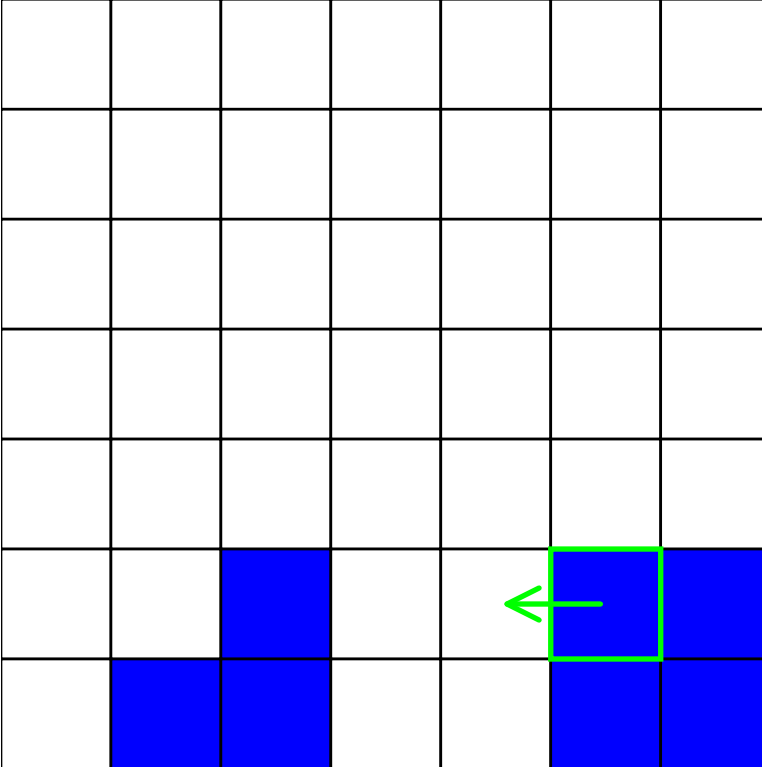
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(5, 2): <Color: blue>, (5, 5): <Color: blue>, (5, 6): <Color: blue>, (6, 1): <Color: blue>, (6, 2): <Color: blue>, (6, 5): <Color: blue>, (6, 6): <Color: blue>})

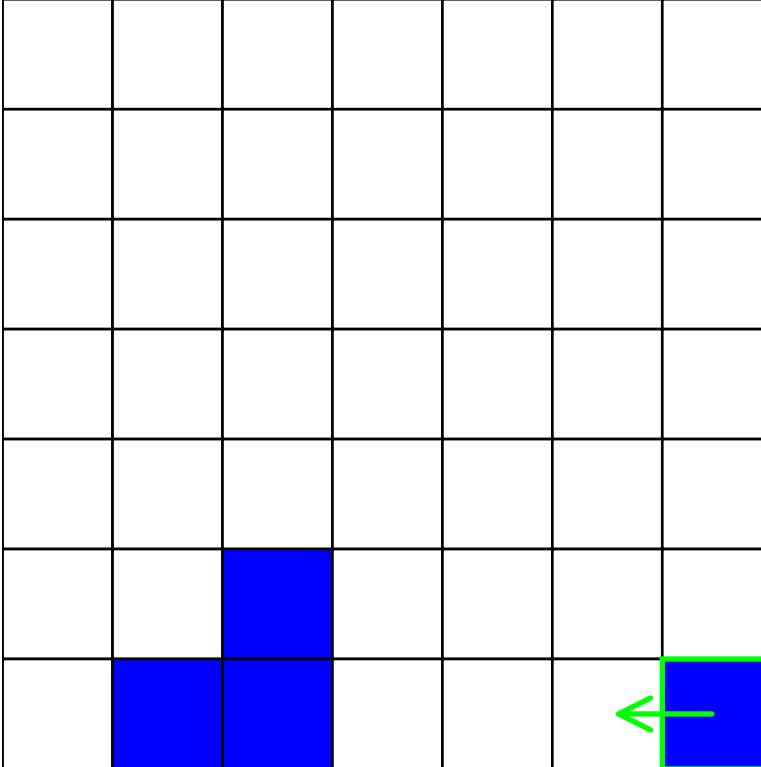
INITIAL STATE: (MOVE 1)

Perform: move_left at position: (5, 5):



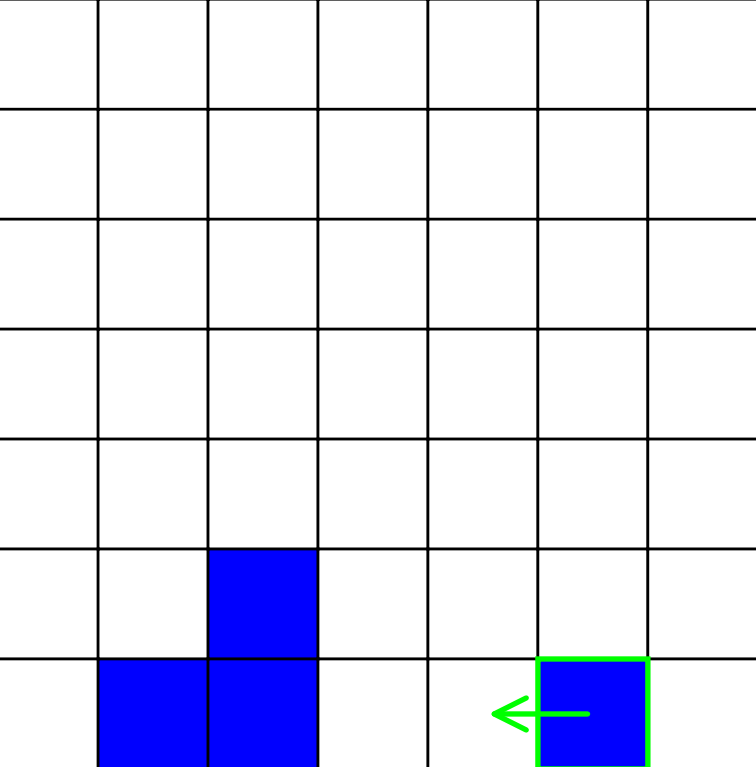
(MOVE 2)

Perform: move_left at position: (6, 6):



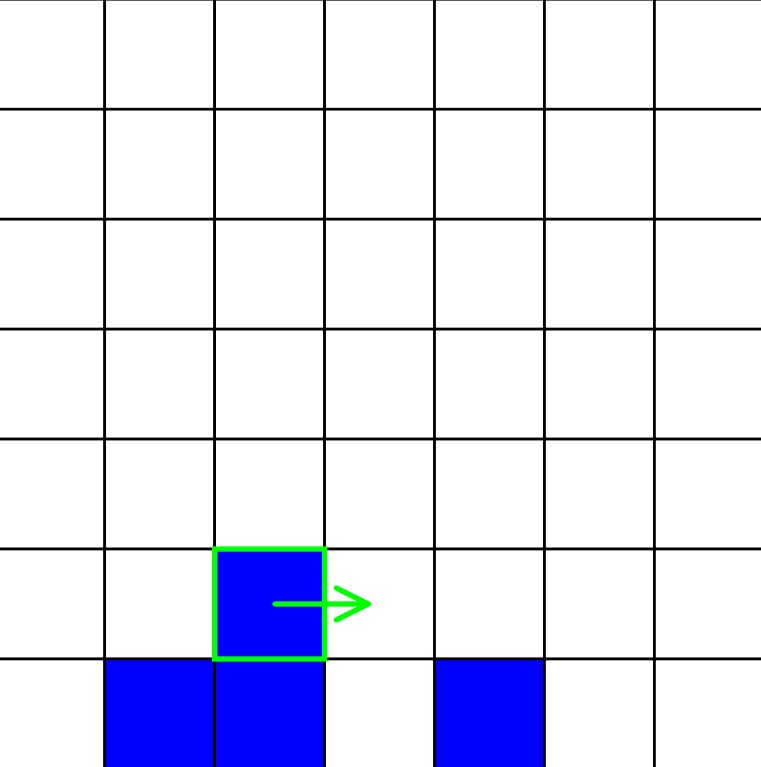
(MOVE 3)

Perform: move_left at position: (6, 5):

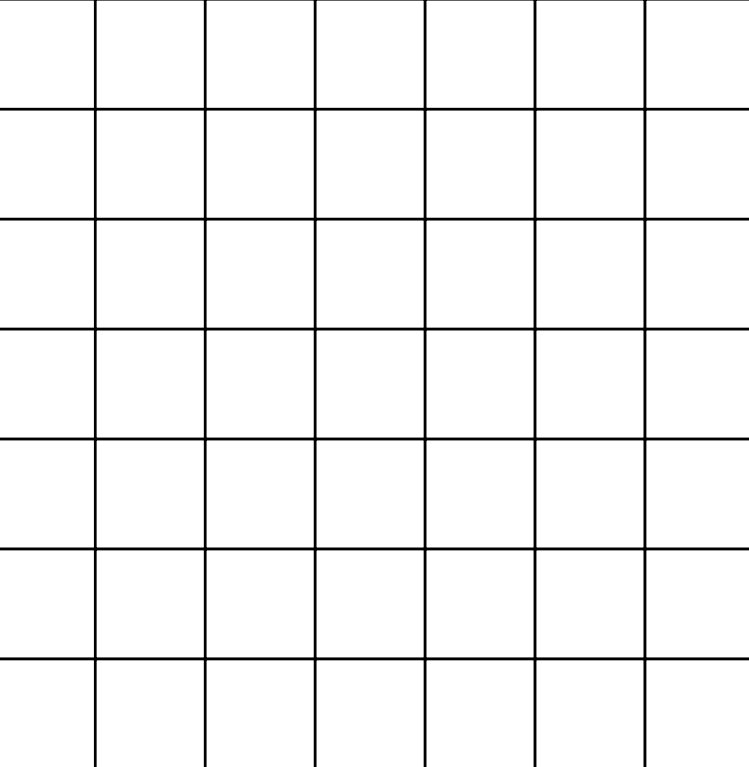


(MOVE 4)

Perform: move_right at position: (5, 2):



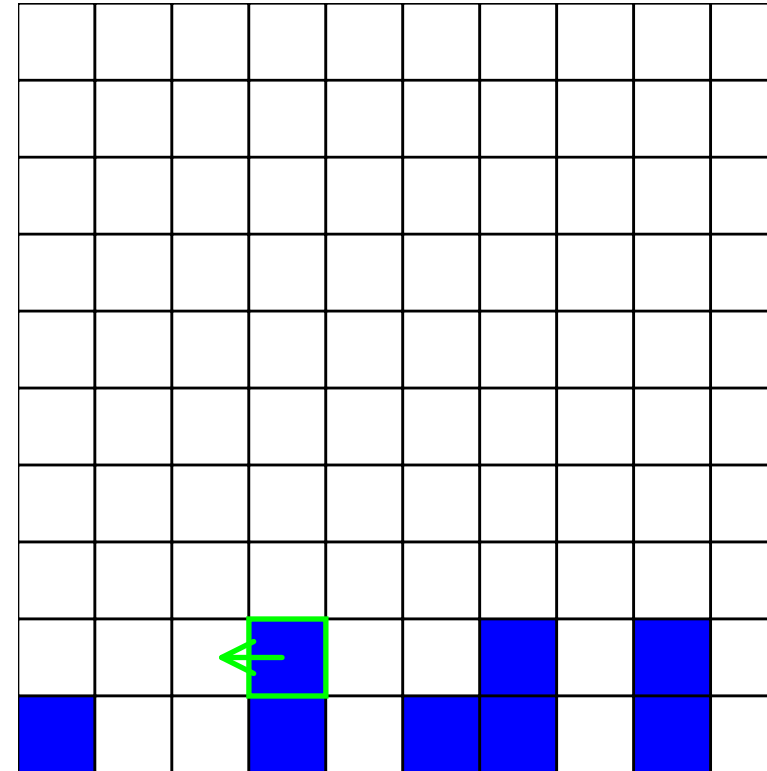
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(8, 3): <Color: blue>, (8, 6): <Color: blue>, (8, 8): <Color: blue>, (9, 0): <Color: blue>, (9, 3): <Color: blue>, (9, 5): <Color: blue>, (9, 6): <Color: blue>, (9, 8): <Color: blue>})

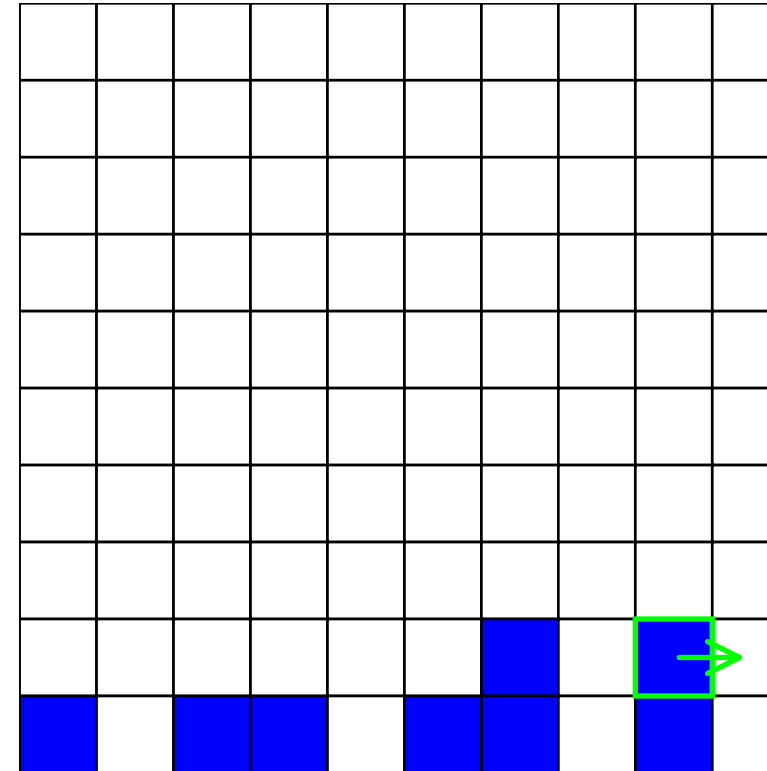
INITIAL STATE: (MOVE 1)

Perform: move_left at position: (8, 3):



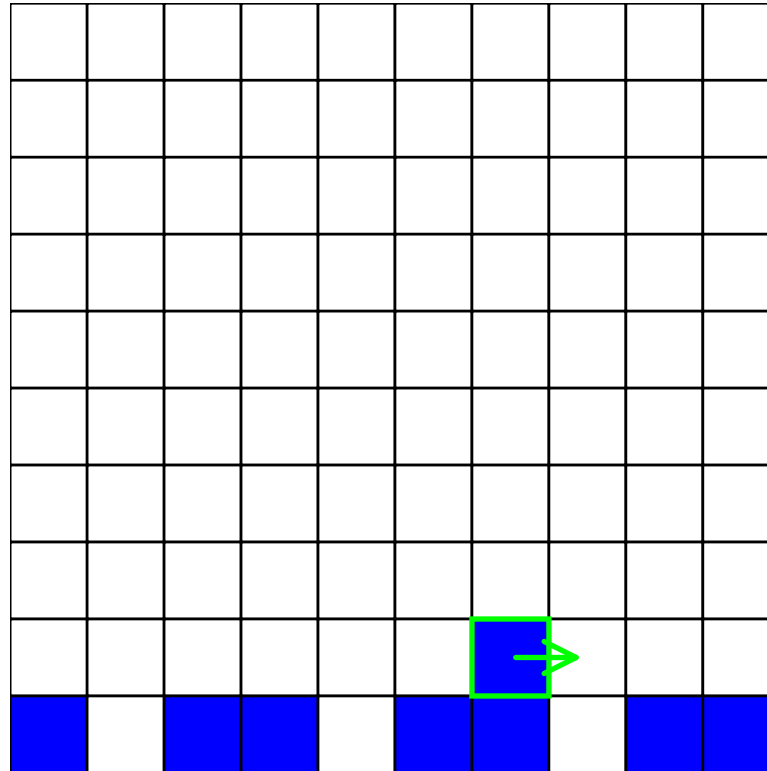
(MOVE 2)

Perform: move_right at position: (8, 8):



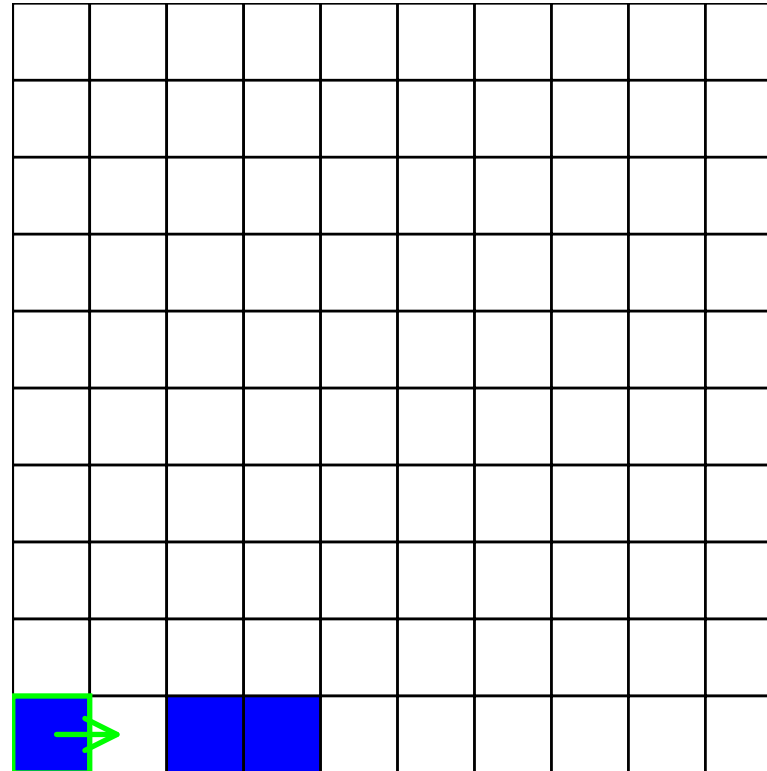
(MOVE 3)

Perform: move_right at position: (8, 6):

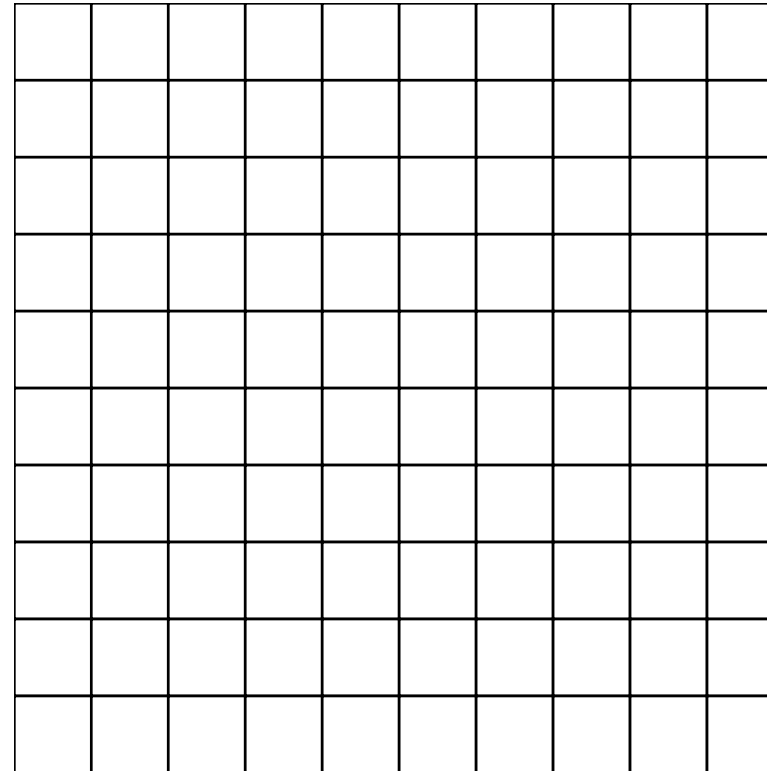


(MOVE 4)

Perform: move_right at position: (9, 0):



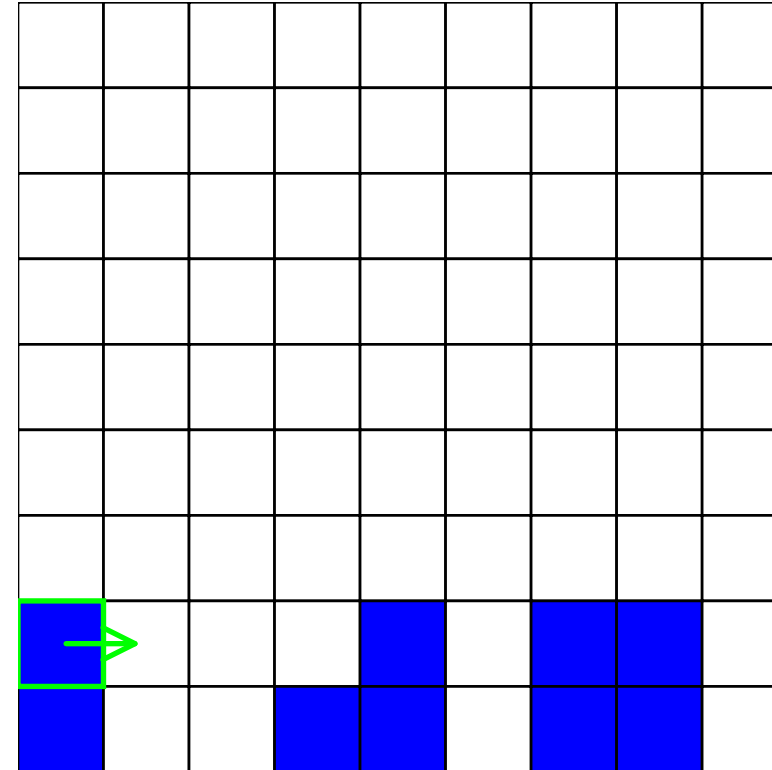
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(7, 0): <Color: blue>, (7, 4): <Color: blue>, (7, 6): <Color: blue>, (7, 7): <Color: blue>, (8, 0): <Color: blue>, (8, 3): <Color: blue>, (8, 4): <Color: blue>, (8, 6): <Color: blue>, (8, 7): <Color: blue>})

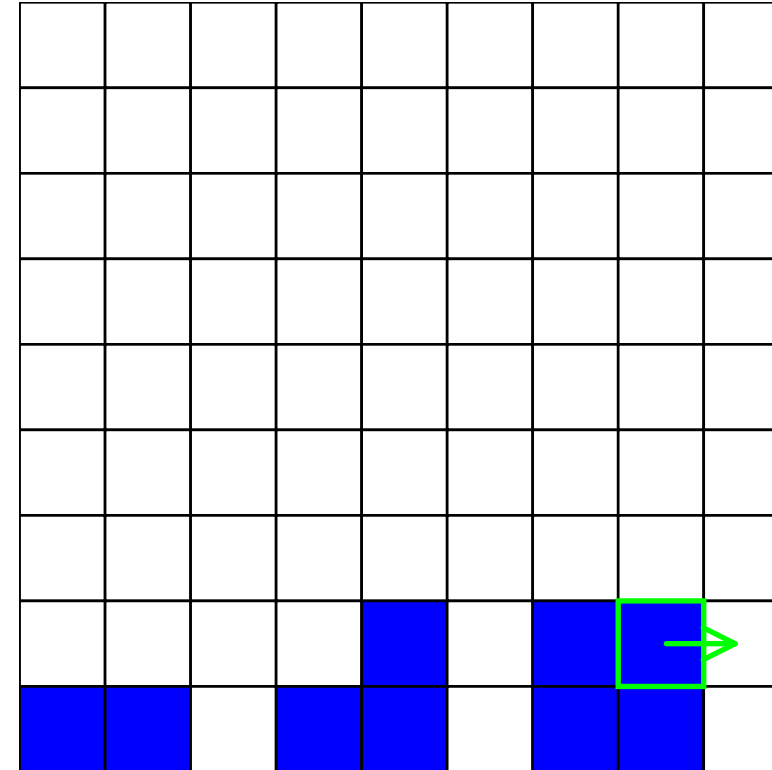
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (7, 0):



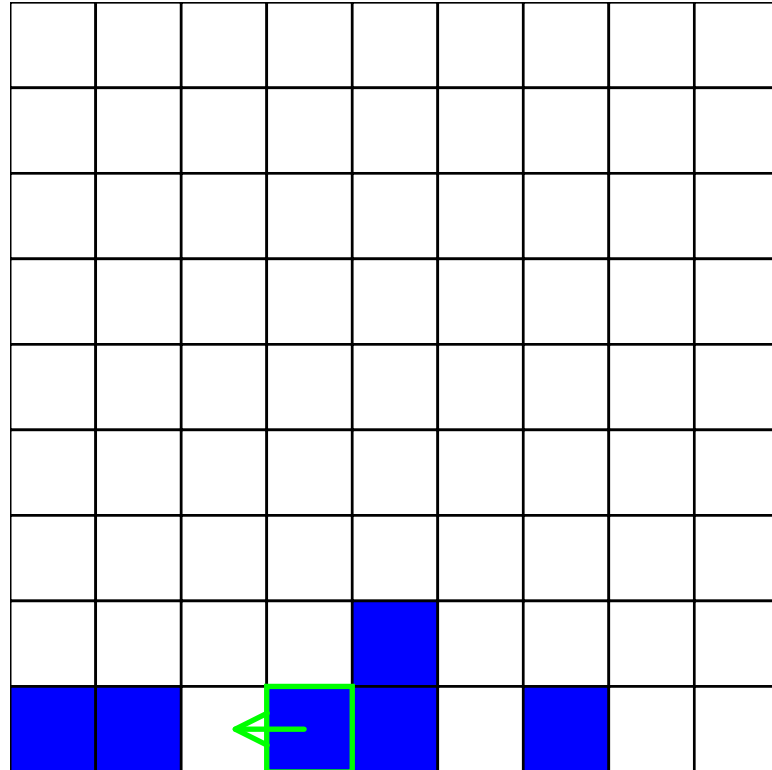
(MOVE 2)

Perform: move_right at position: (7, 7):



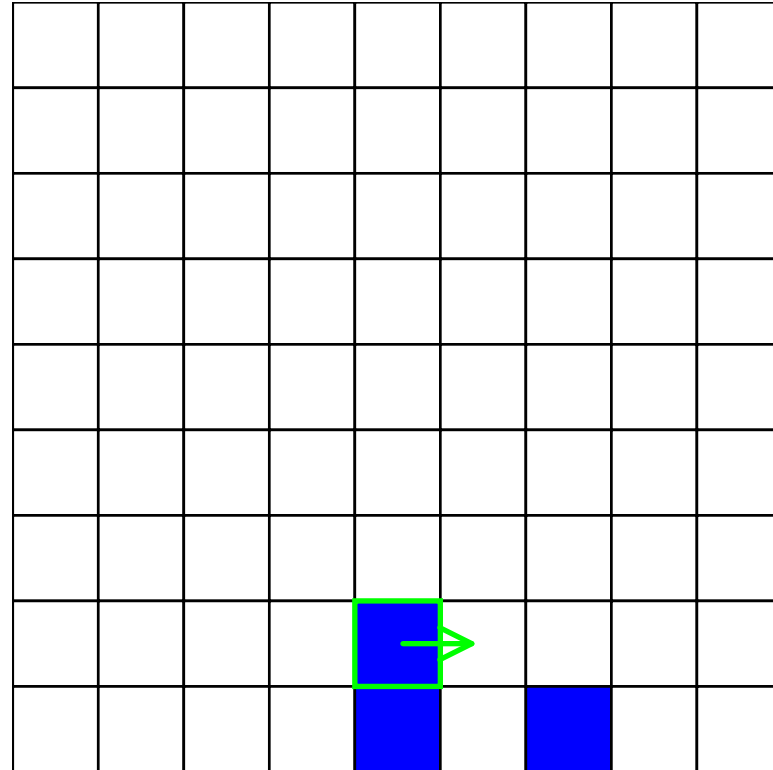
(MOVE 3)

Perform: move_left at position: (8, 3):

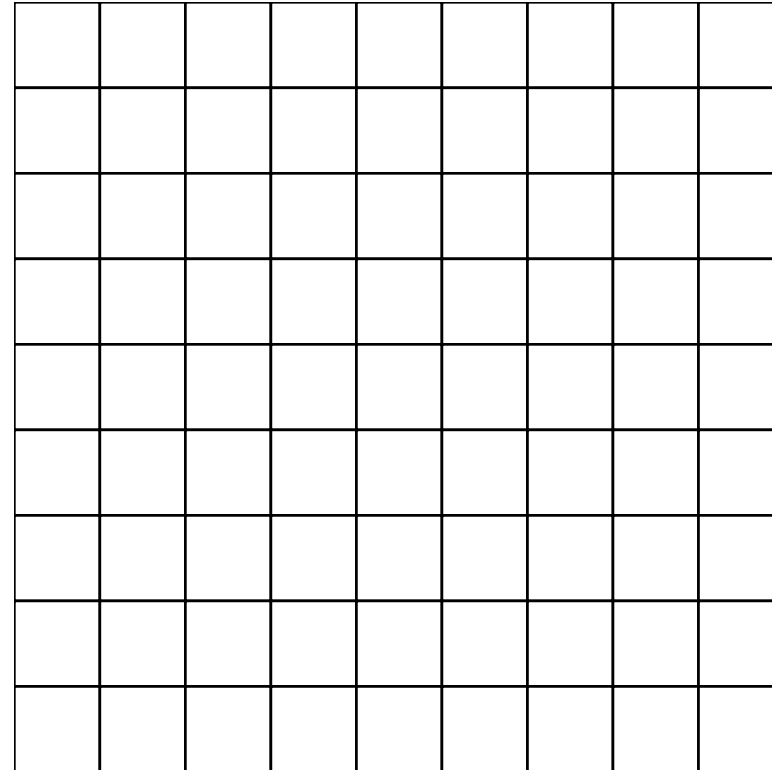


(MOVE 4)

Perform: move_right at position: (7, 4):



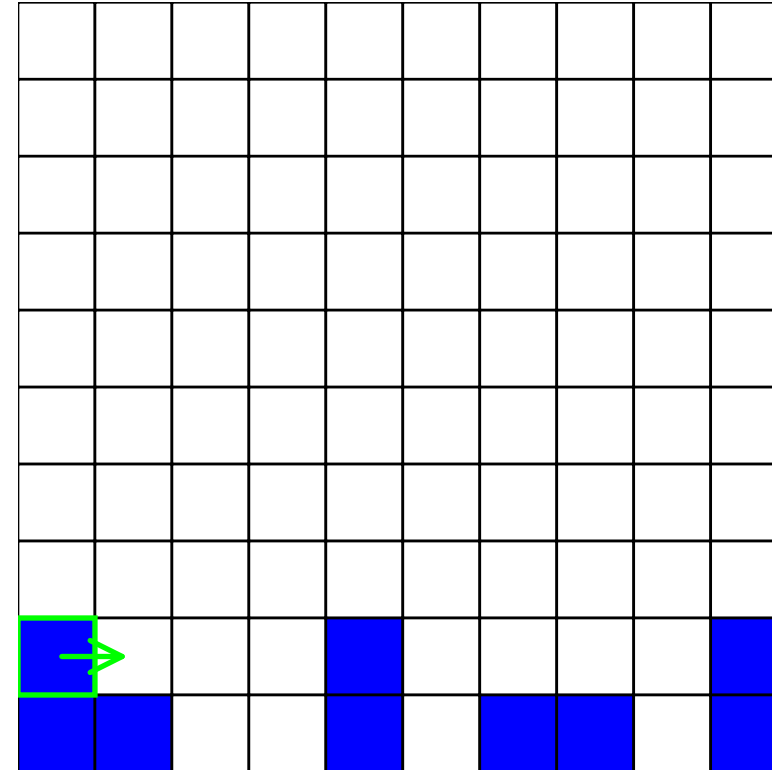
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(8, 0): <Color: blue>, (8, 4): <Color: blue>, (8, 9): <Color: blue>, (9, 0): <Color: blue>, (9, 1): <Color: blue>, (9, 4): <Color: blue>, (9, 6): <Color: blue>, (9, 7): <Color: blue>, (9, 9): <Color: blue>})

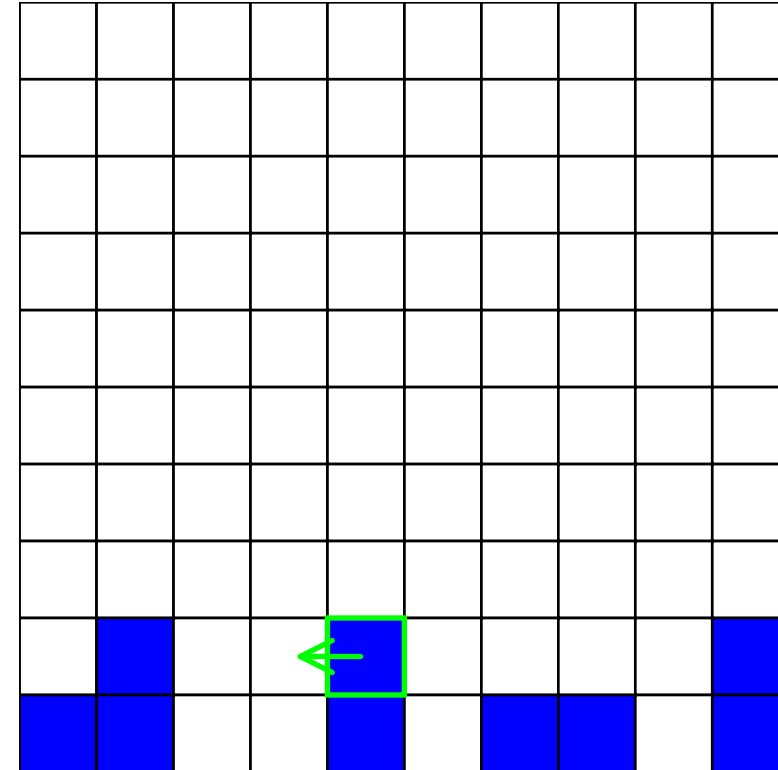
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (8, 0):



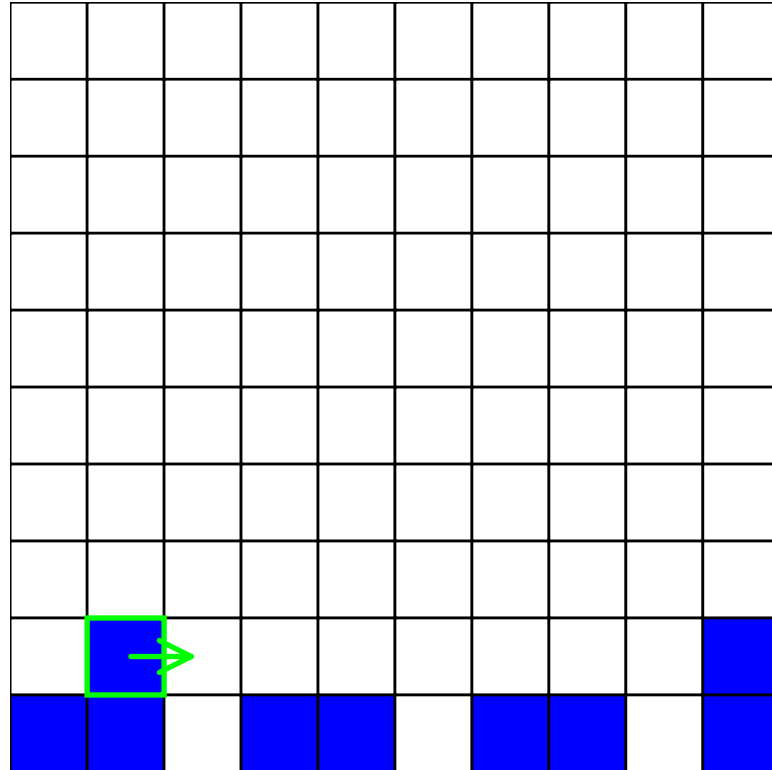
(MOVE 2)

Perform: move_left at position: (8, 4):



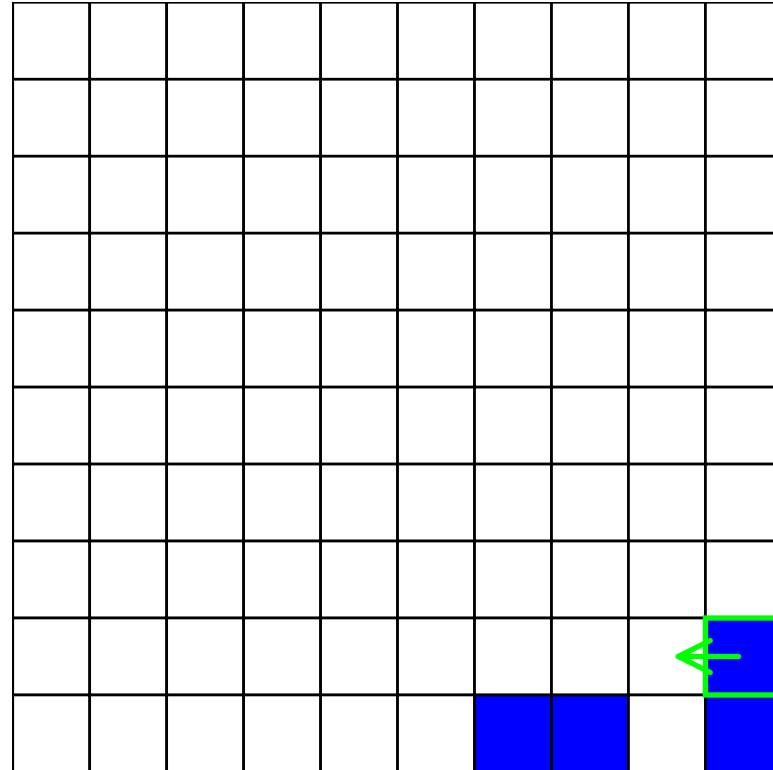
(MOVE 3)

Perform: move_right at position: (8, 1):

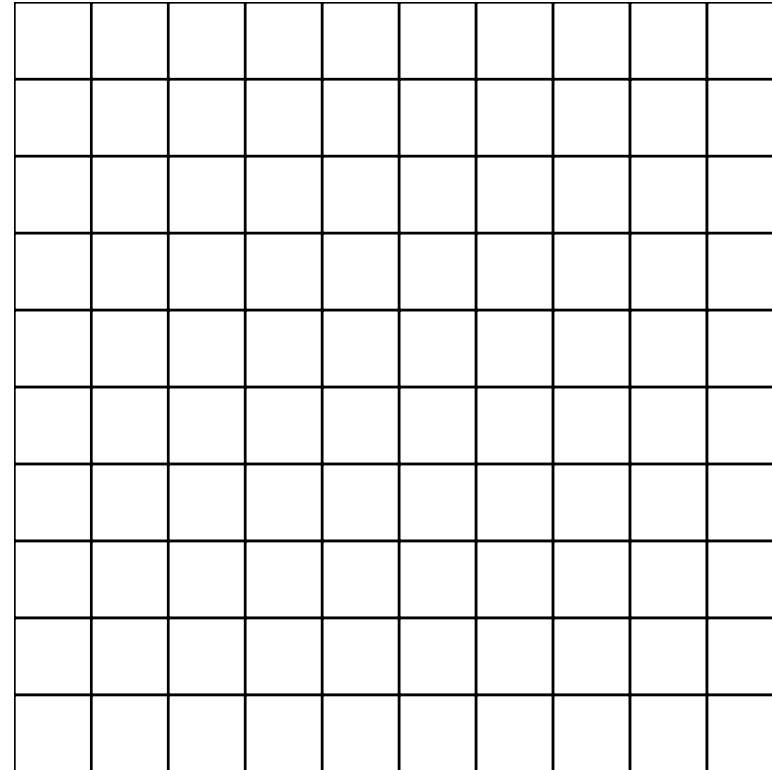


(MOVE 4)

Perform: move_left at position: (8, 9):



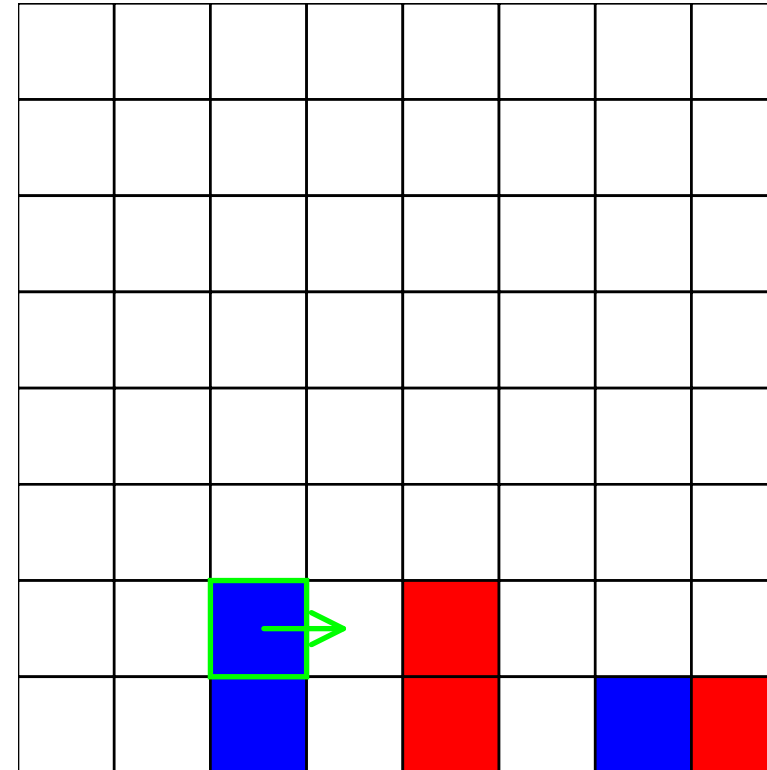
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(6, 2): <Color: blue>, (6, 4): <Color: red>, (7, 2): <Color: blue>, (7, 4): <Color: red>, (7, 6): <Color: blue>, (7, 7): <Color: red>})

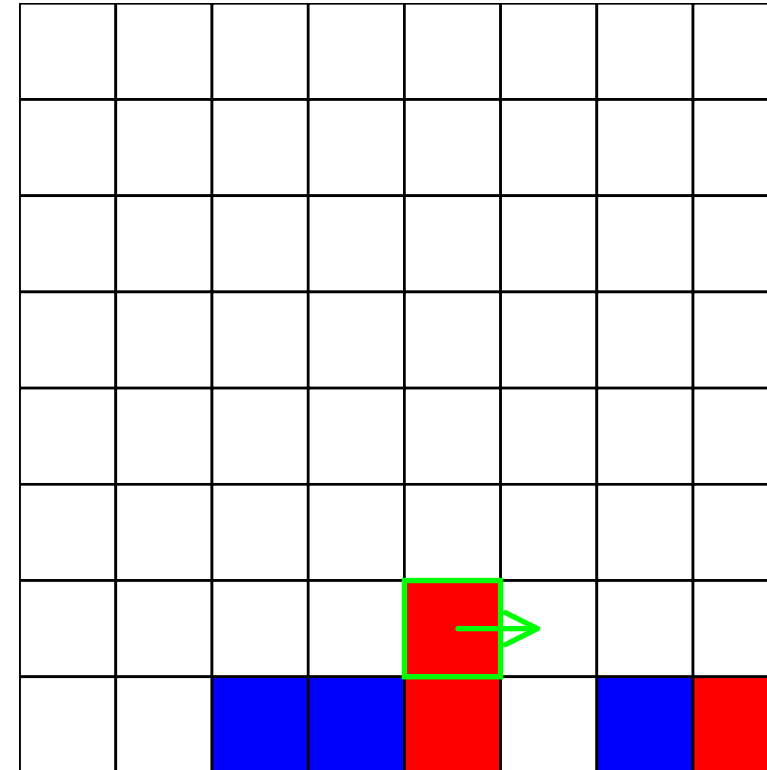
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (6, 2):



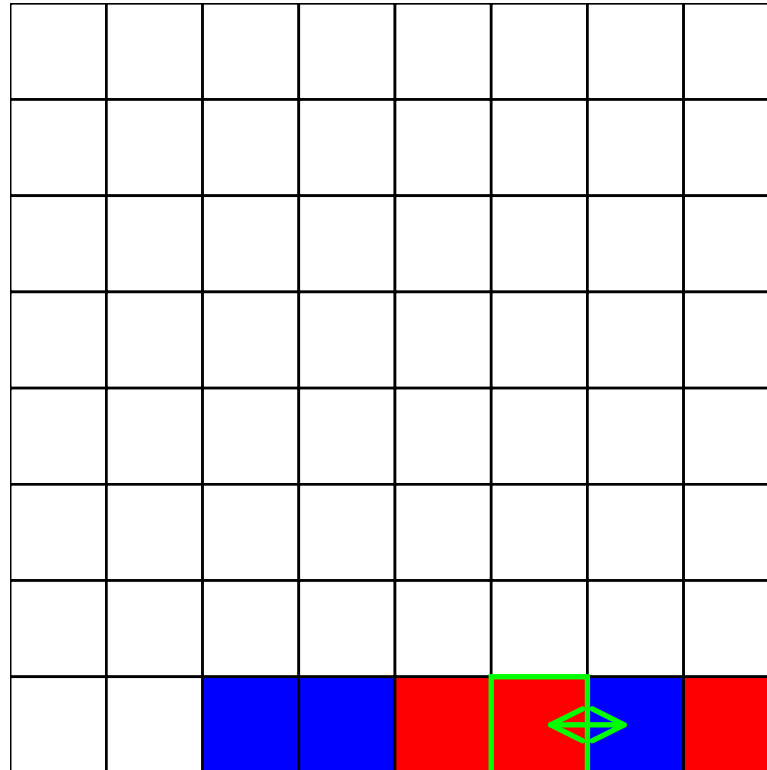
(MOVE 2)

Perform: move_right at position: (6, 4):



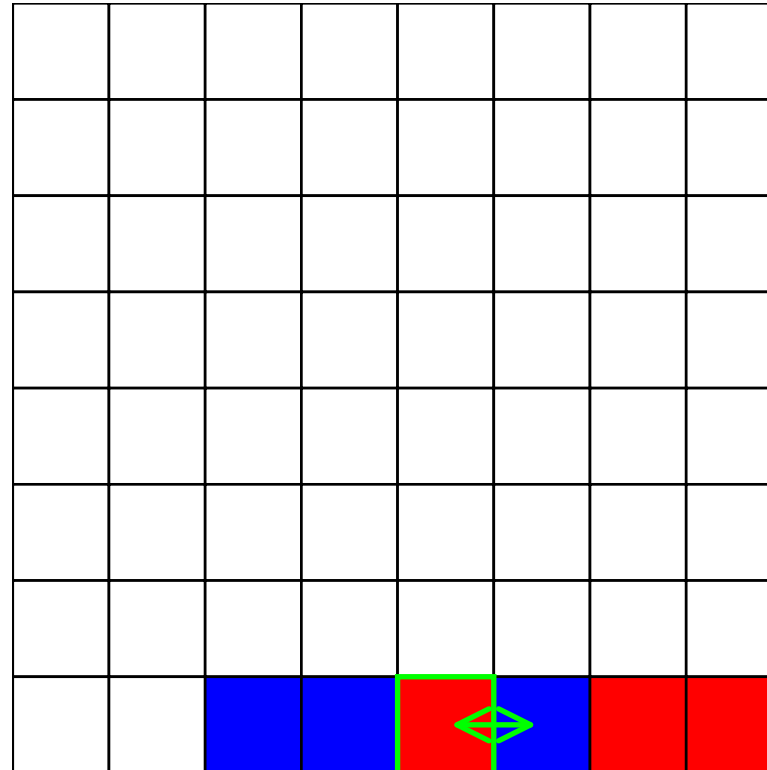
(MOVE 3)

Perform: exchange_right at position: (7, 5):

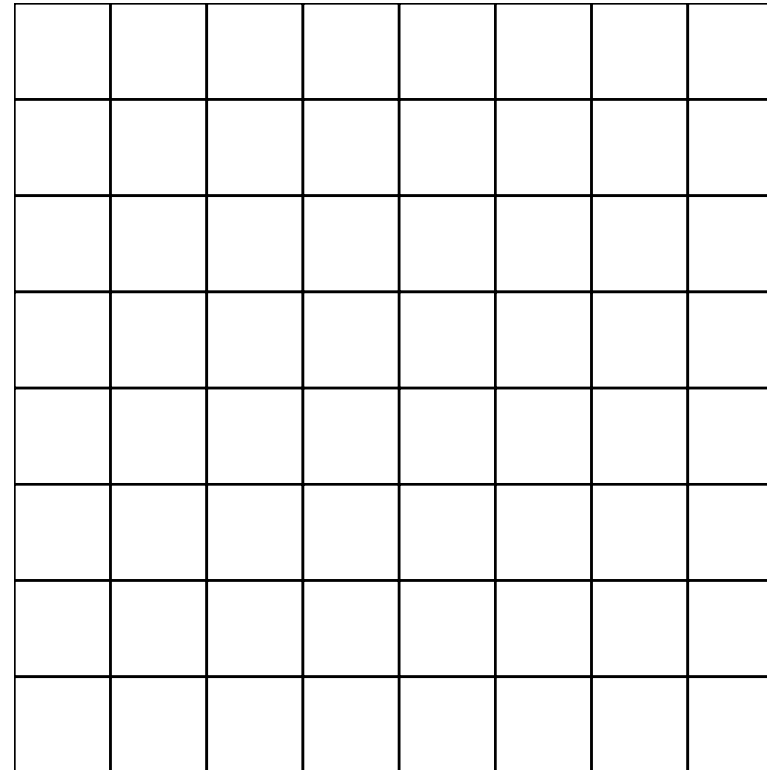


(MOVE 4)

Perform: exchange_right at position: (7, 4):



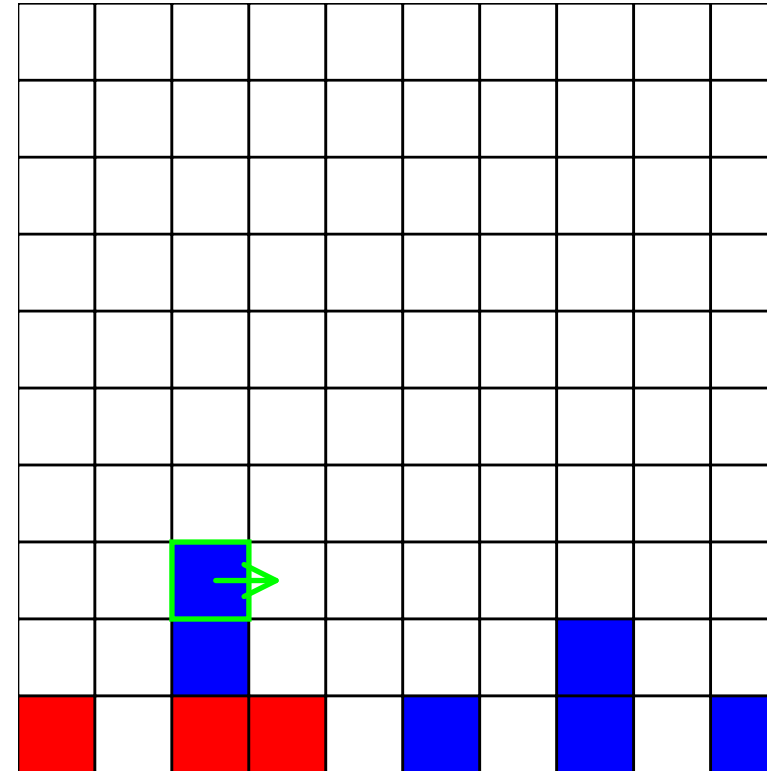
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(7, 2): <Color: blue>, (8, 2): <Color: blue>, (8, 7): <Color: blue>, (9, 0): <Color: red>, (9, 2): <Color: red>, (9, 3): <Color: red>, (9, 5): <Color: blue>, (9, 7): <Color: blue>, (9, 9): <Color: blue>})

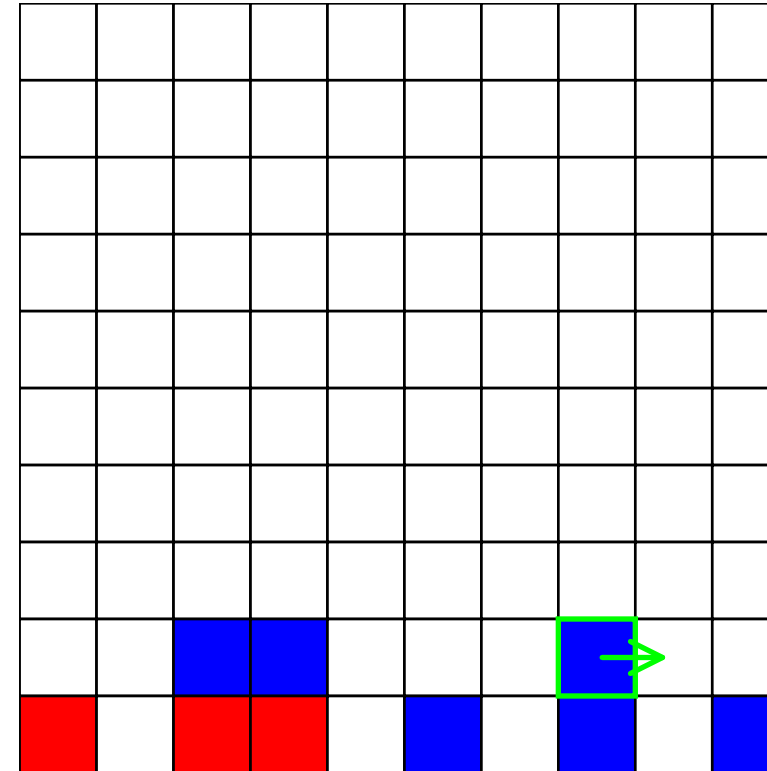
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (7, 2):



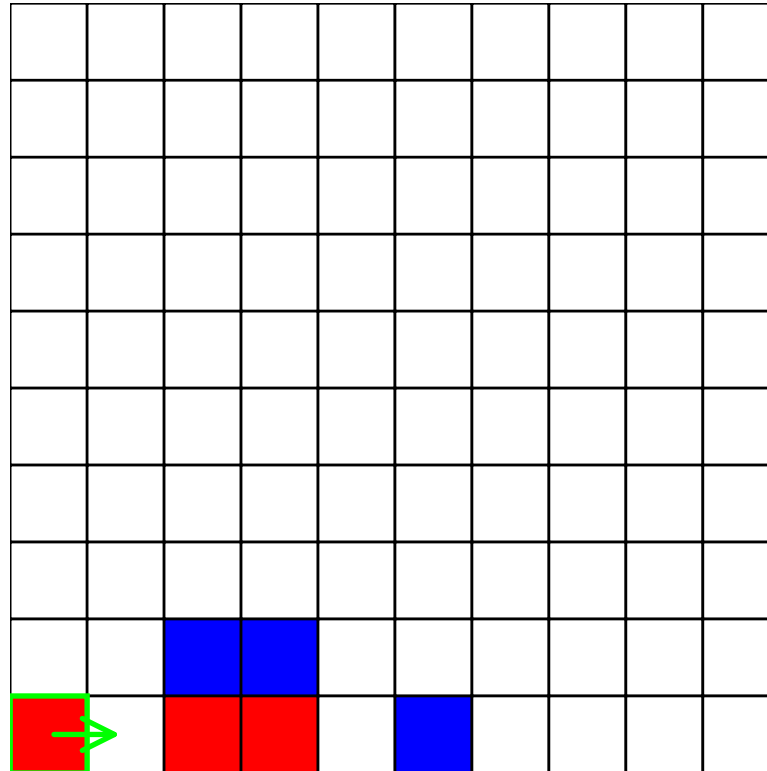
(MOVE 2)

Perform: move_right at position: (8, 7):



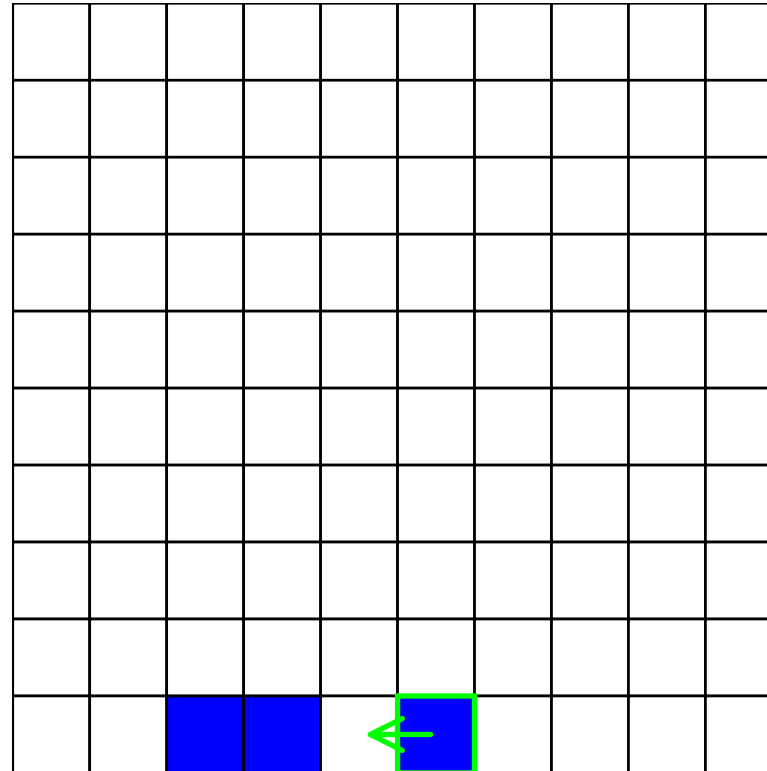
(MOVE 3)

Perform: move_right at position: (9, 0):

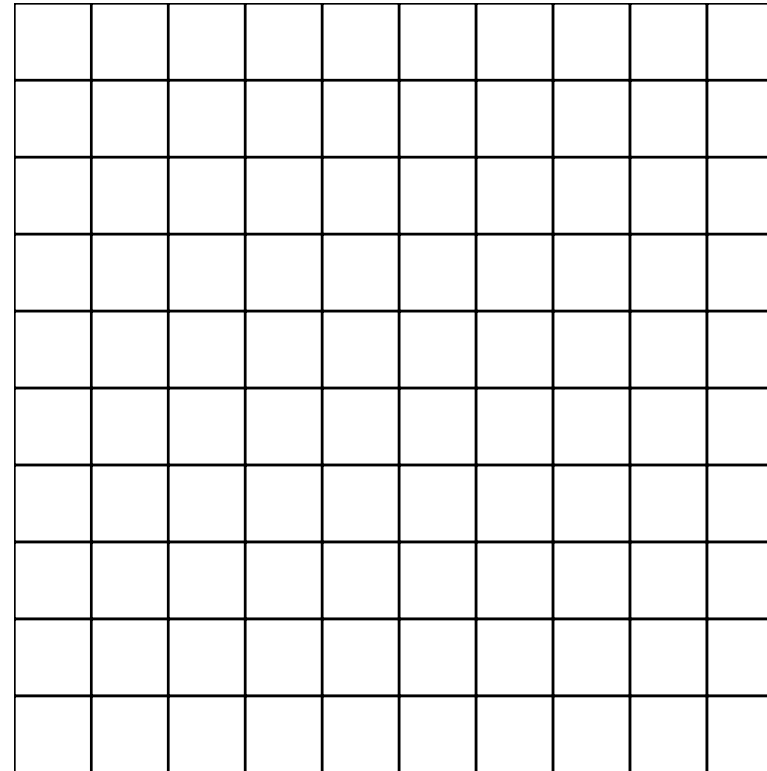


(MOVE 4)

Perform: move_left at position: (9, 5):



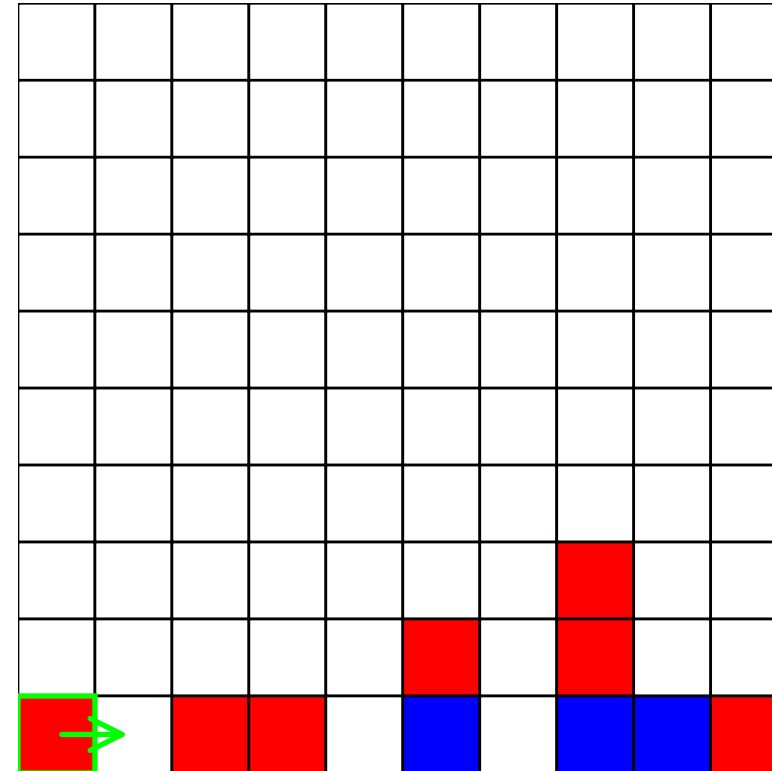
FINAL STATE



...:SOLUTION:...: Solvable in 4 moves (blocks positions: {(7, 7): <Color: red>, (8, 5): <Color: red>, (8, 7): <Color: red>, (9, 0): <Color: red>, (9, 2): <Color: red>, (9, 3): <Color: red>, (9, 5): <Color: blue>, (9, 7): <Color: blue>, (9, 8): <Color: blue>, (9, 9): <Color: red>})

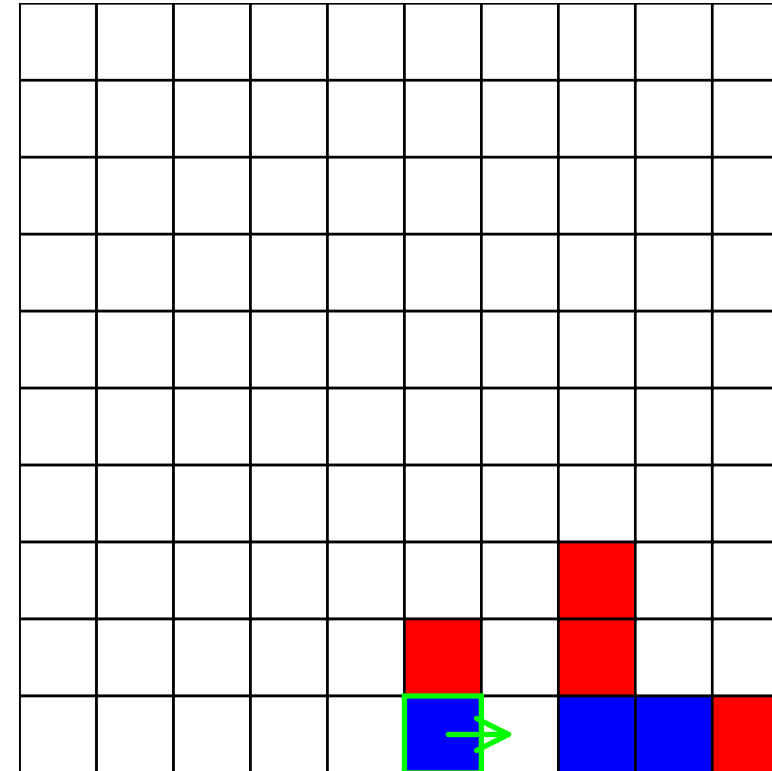
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (9, 0):



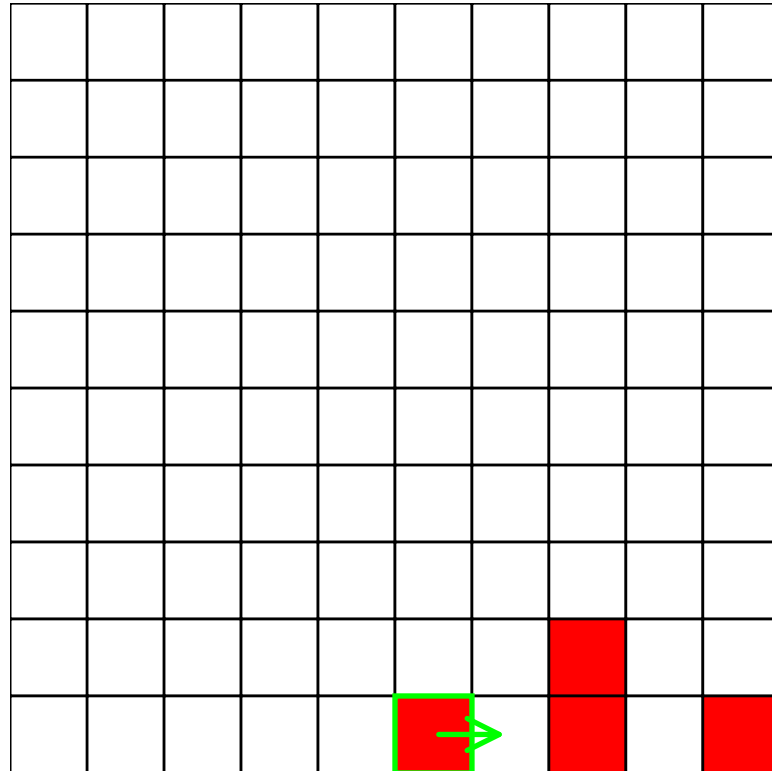
(MOVE 2)

Perform: move_right at position: (9, 5):



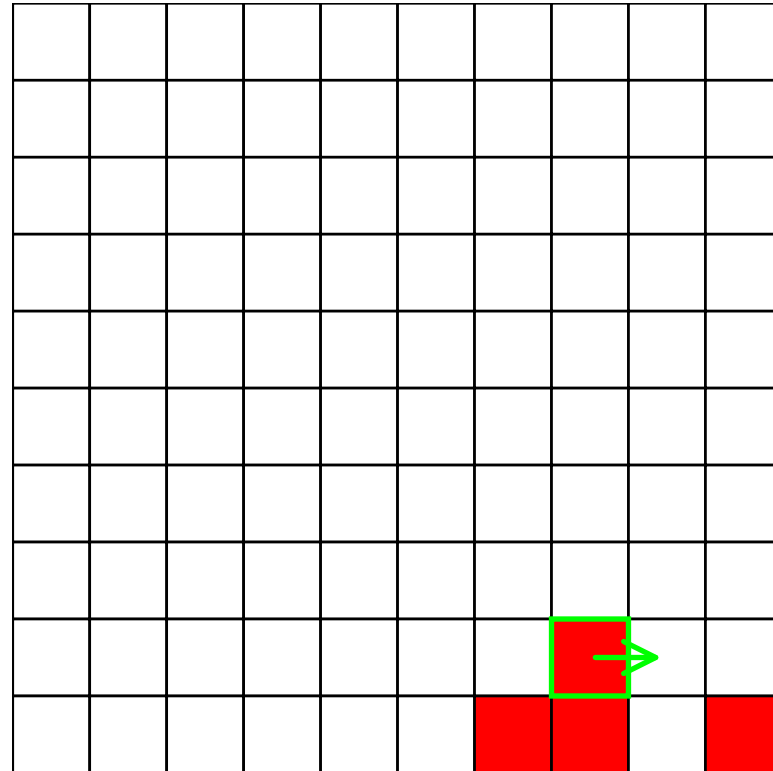
(MOVE 3)

Perform: move_right at position: (9, 5):

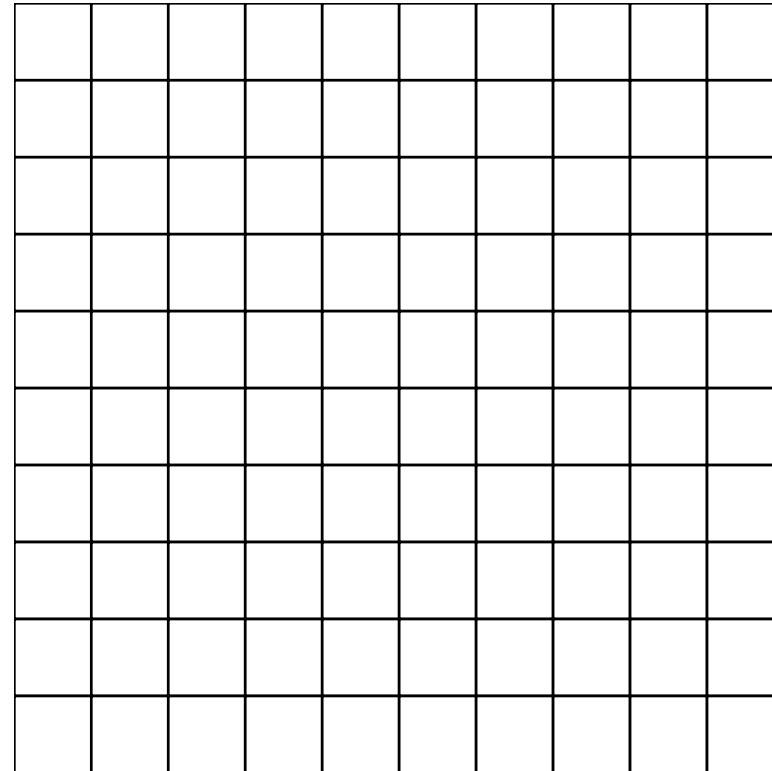


(MOVE 4)

Perform: move_right at position: (8, 7):



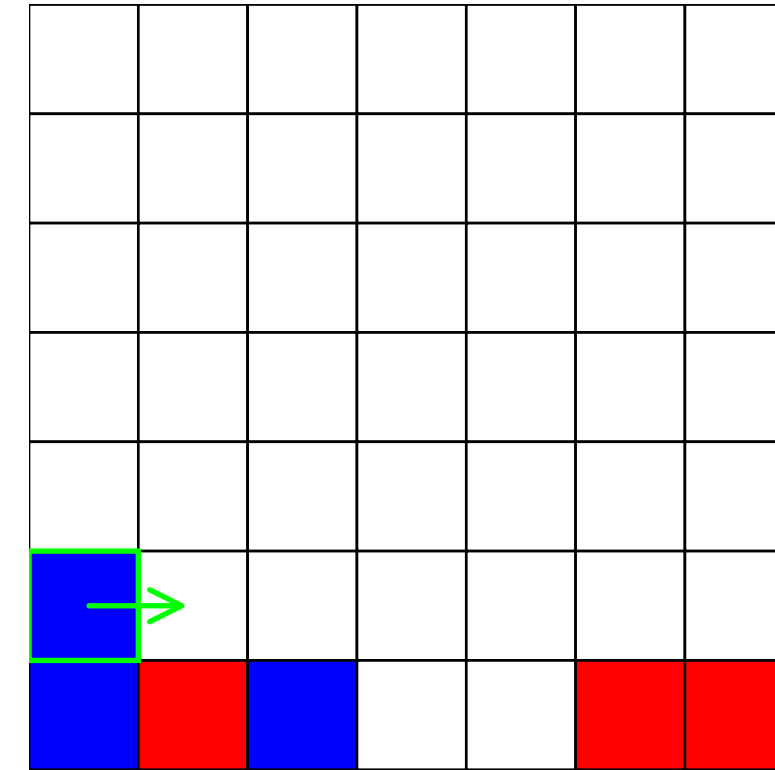
FINAL STATE



...:SOLUTION:...: Solvable in 5 moves (blocks positions: {(5, 0): <Color: blue>, (6, 0): <Color: blue>, (6, 1): <Color: red>, (6, 2): <Color: blue>, (6, 5): <Color: red>, (6, 6): <Color: red>})

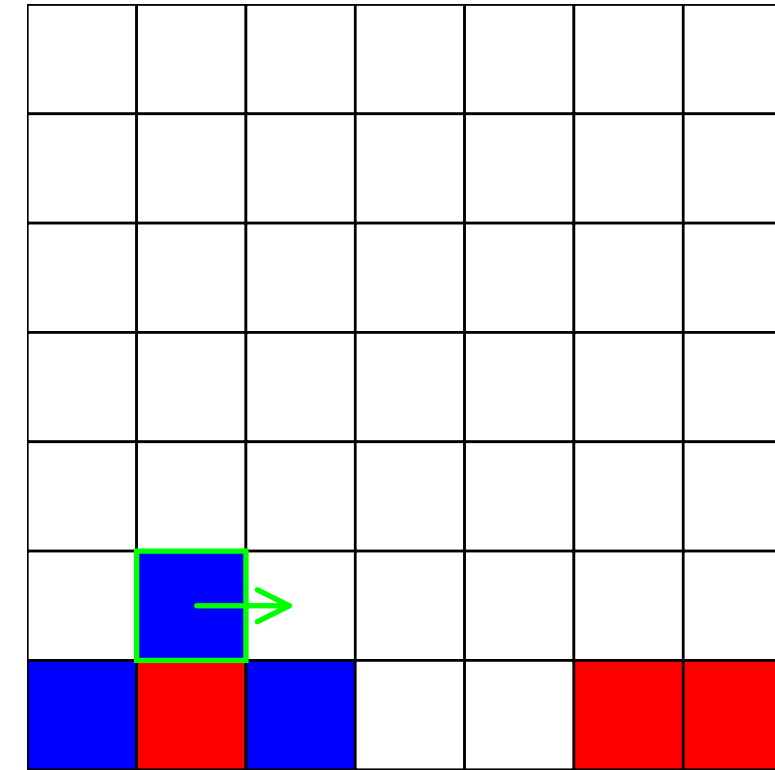
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (5, 0):



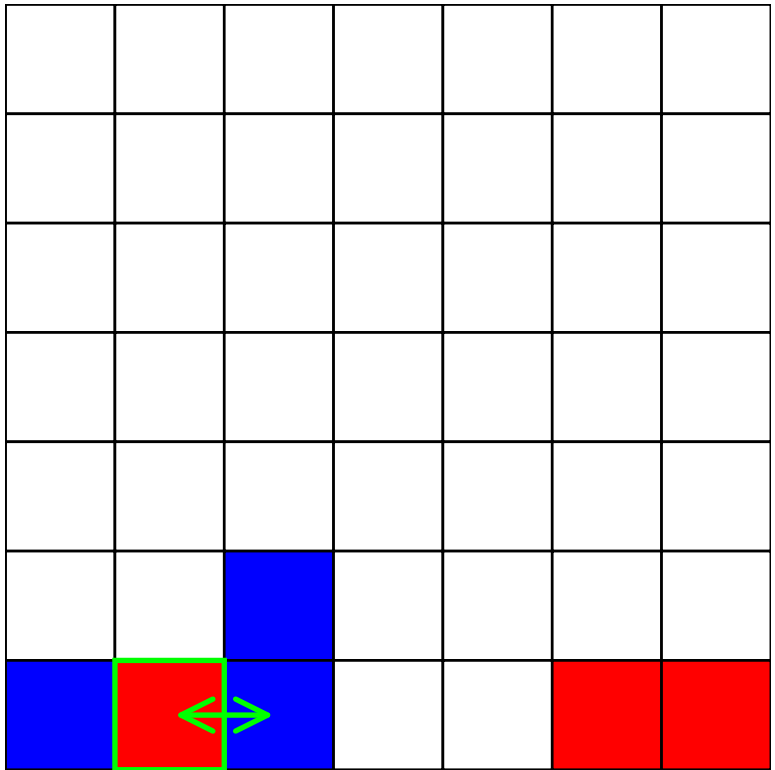
(MOVE 2)

Perform: move_right at position: (5, 1):



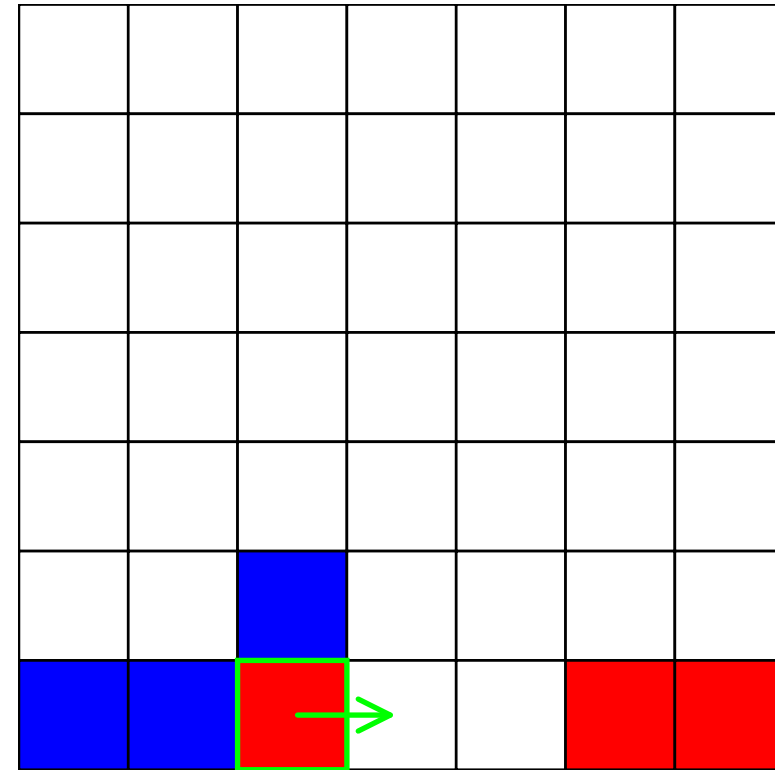
(MOVE 3)

Perform: exchange_right at position: (6, 1):



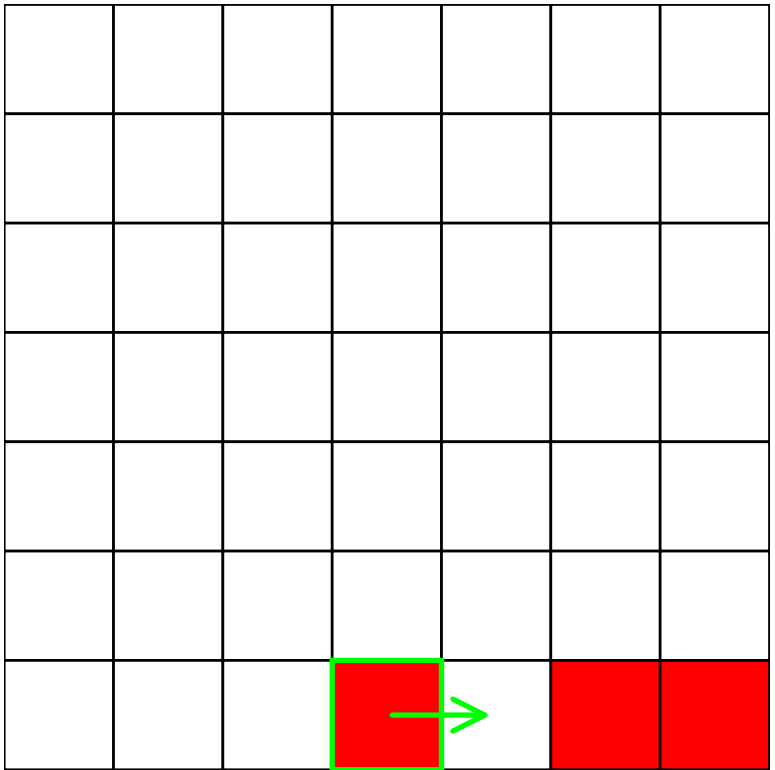
(MOVE 4)

Perform: move_right at position: (6, 2):

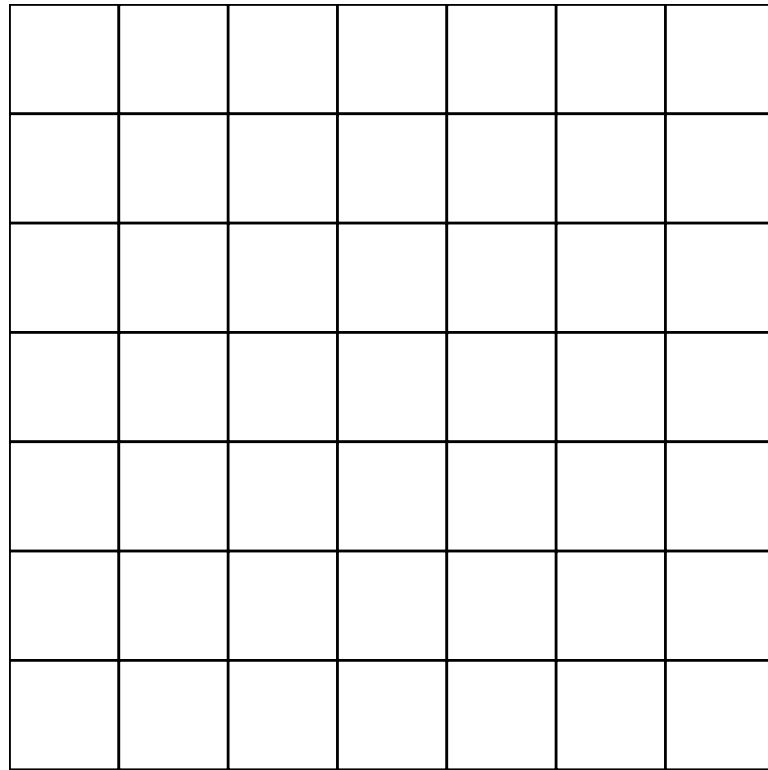


(MOVE 5)

Perform: move_right at position: (6, 3):



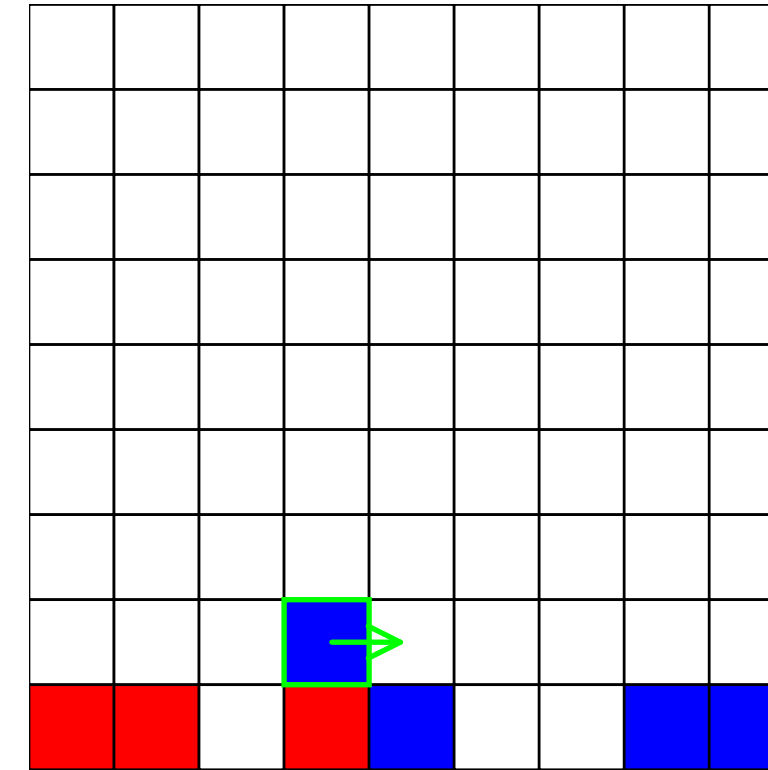
FINAL STATE



...:SOLUTION:...: Solvable in 5 moves (blocks positions: {(7, 3): <Color: blue>, (8, 0): <Color: red>, (8, 1): <Color: red>, (8, 3): <Color: red>, (8, 4): <Color: blue>, (8, 7): <Color: blue>, (8, 8): <Color: blue>})

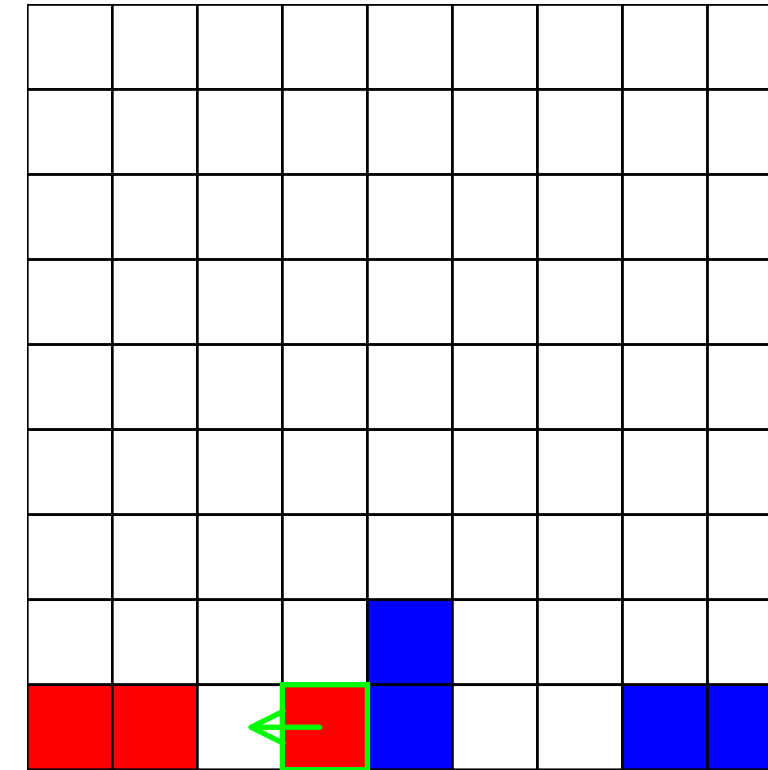
INITIAL STATE: (MOVE 1)

Perform: move_right at position: (7, 3):



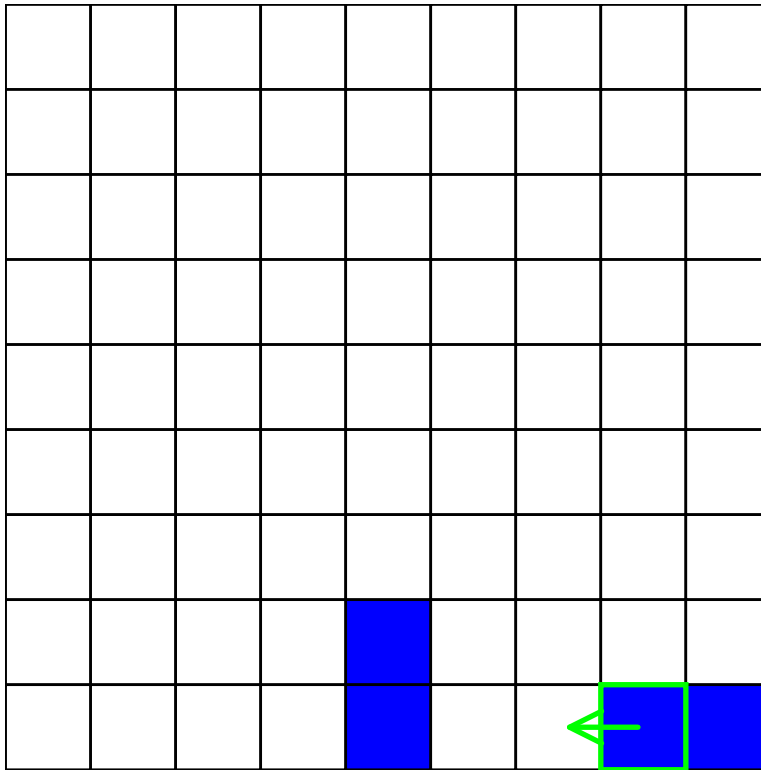
(MOVE 2)

Perform: move_left at position: (8, 3):



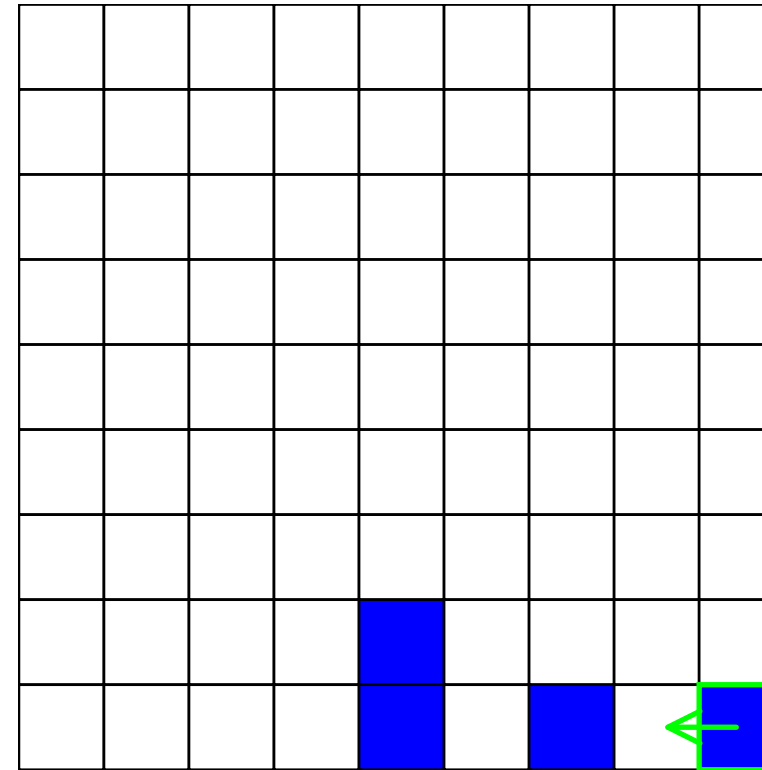
(MOVE 3)

Perform: move_left at position: (8, 7):



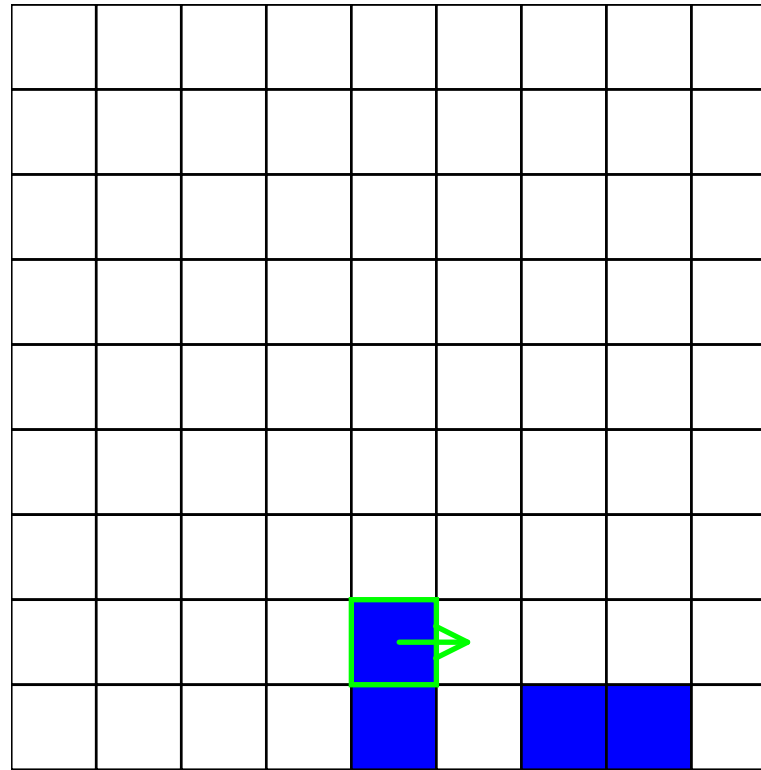
(MOVE 4)

Perform: move_left at position: (8, 8):

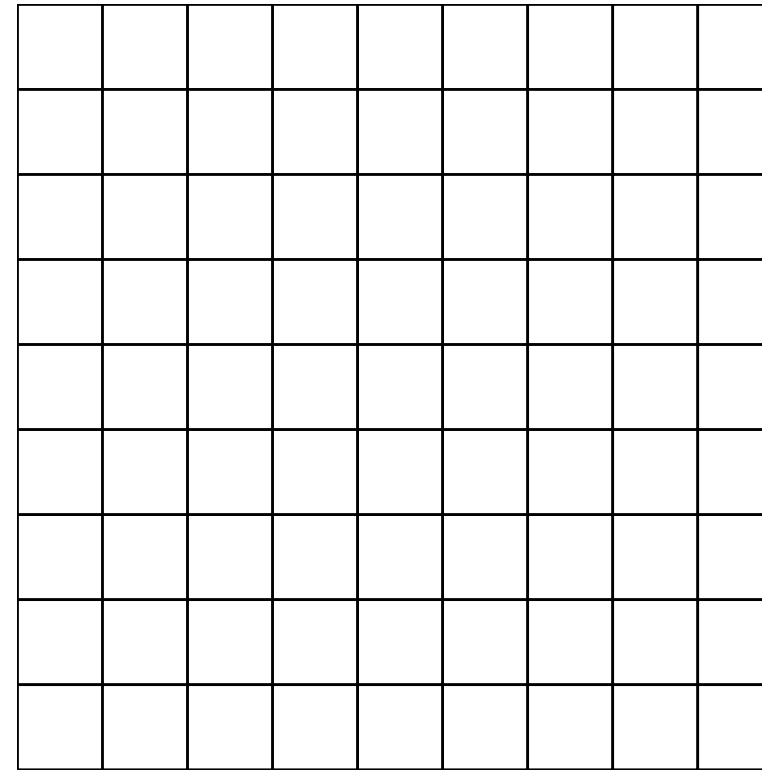


(MOVE 5)

Perform: move_right at position: (7, 4):



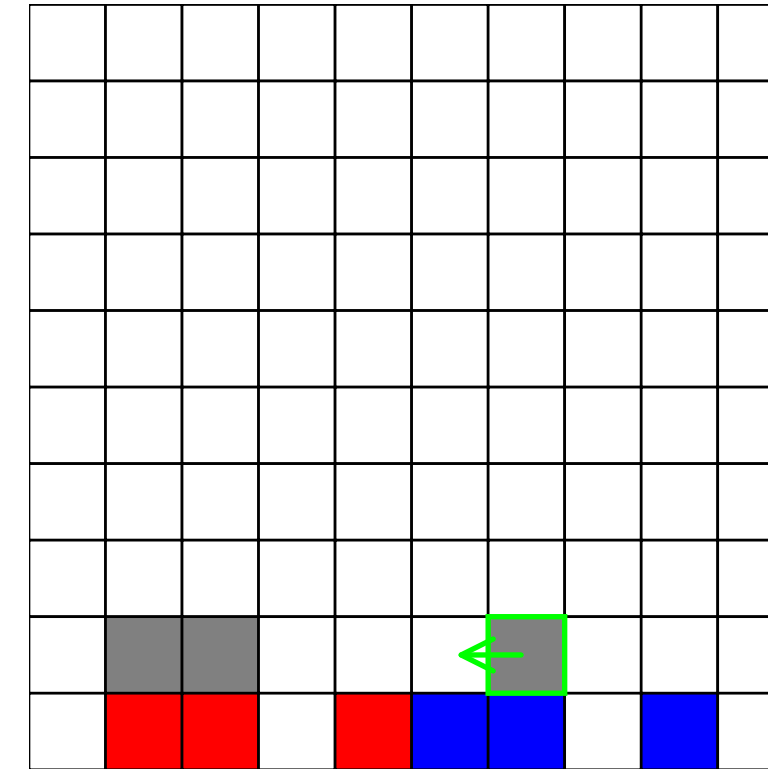
FINAL STATE



...:SOLUTION:...: Solvable in 5 moves (blocks positions: {(8, 1): <Color: gray>, (8, 2): <Color: gray>, (8, 6): <Color: gray>, (9, 1): <Color: red>, (9, 2): <Color: red>, (9, 4): <Color: red>, (9, 5): <Color: blue>, (9, 6): <Color: blue>, (9, 8): <Color: blue>})

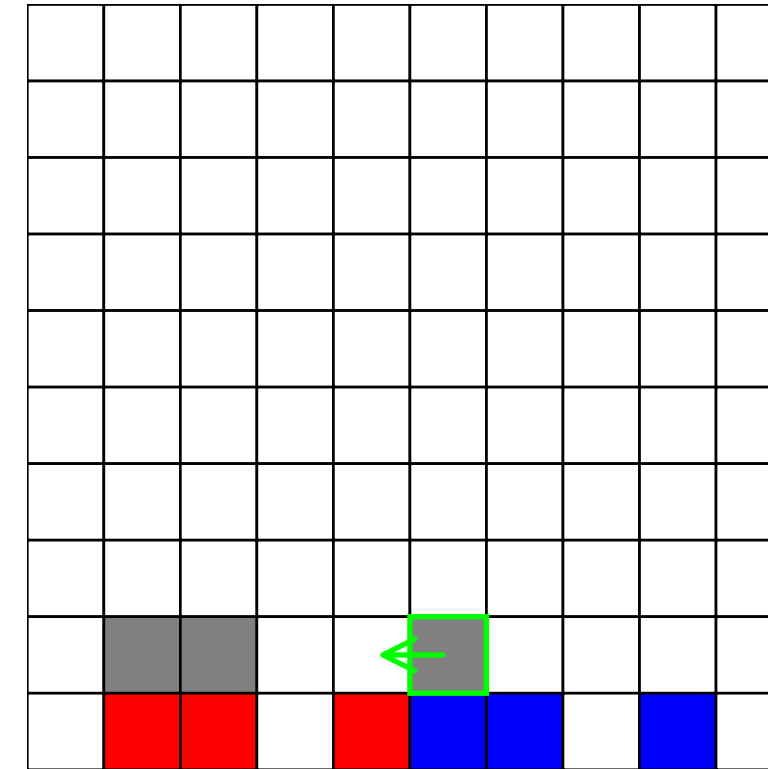
INITIAL STATE: (MOVE 1)

Perform: move_left at position: (8, 6):



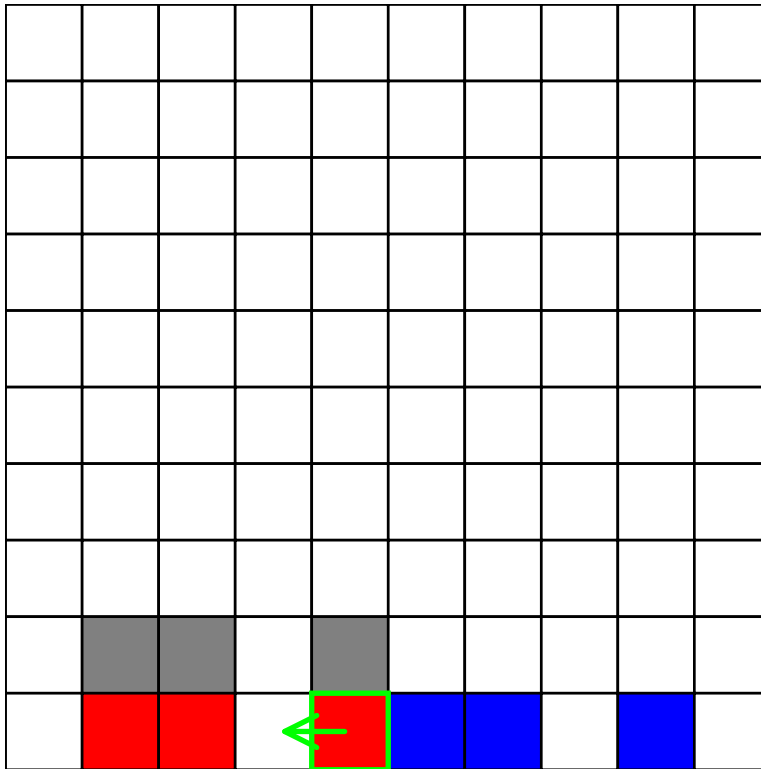
(MOVE 2)

Perform: move_left at position: (8, 5):



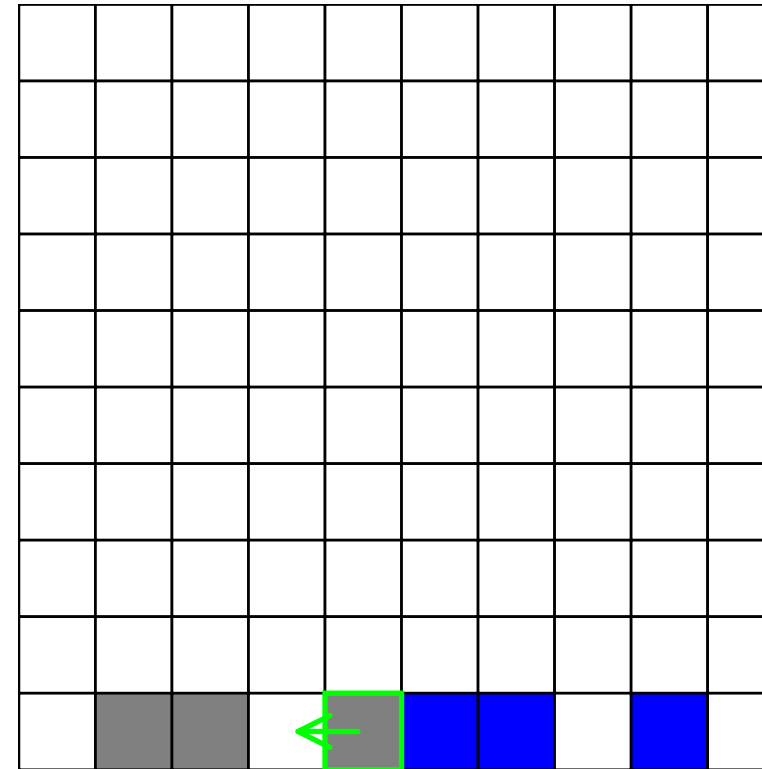
(MOVE 3)

Perform: move_left at position: (9, 4):



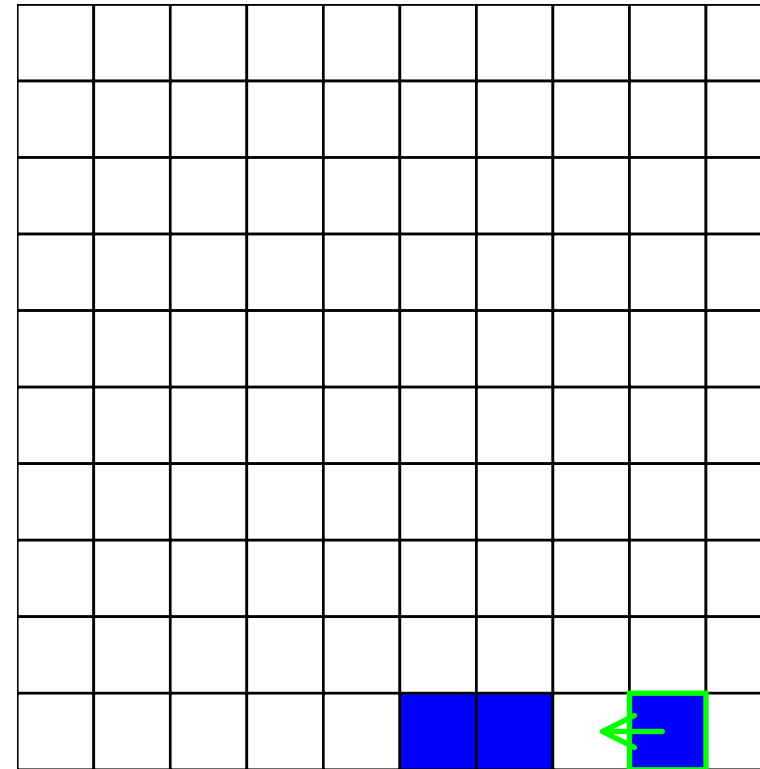
(MOVE 4)

Perform: move_left at position: (9, 4):

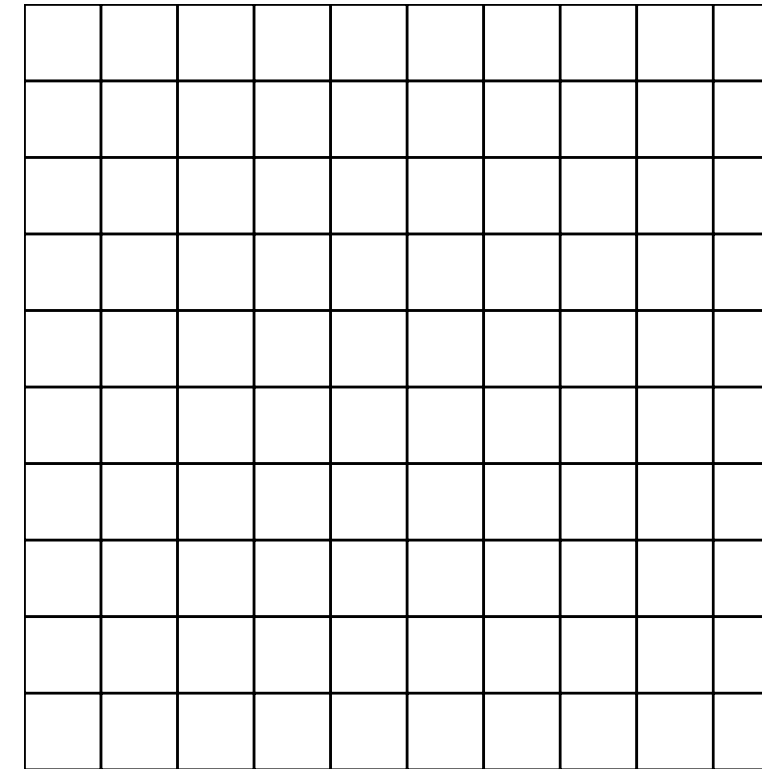


(MOVE 5)

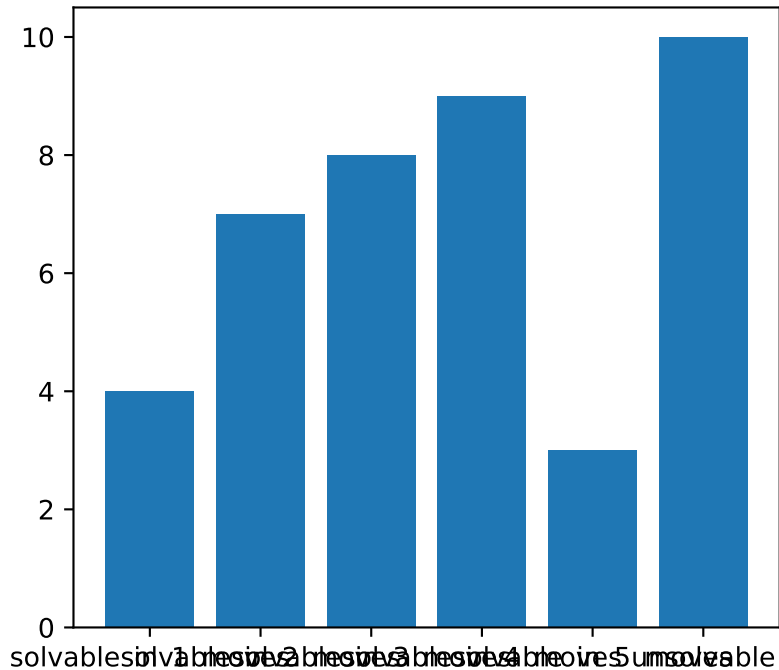
Perform: move_left at position: (9, 8):



FINAL STATE



Number of Puzzles Generated (Bar Chart)



Number of Puzzles Generated (Pie Chart)

