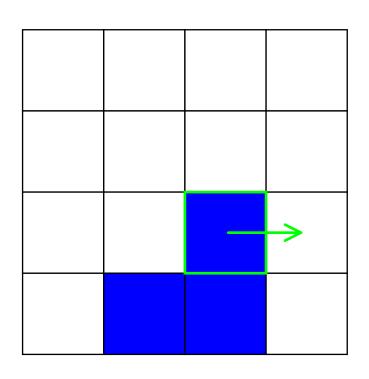
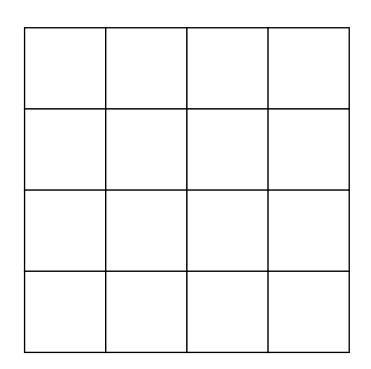
..::SOLUTION:...: Solvable in 1 moves (blocks positions: {(2, 2): <Color: blue>, (3, 1): <Color: blue>, (3, 2): <Color: blue>})

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



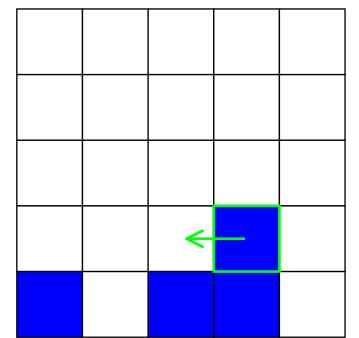


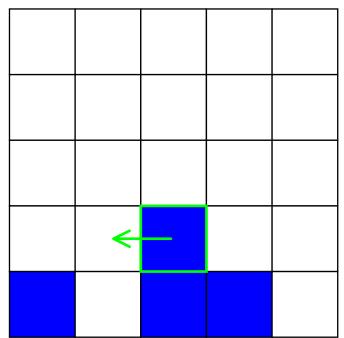


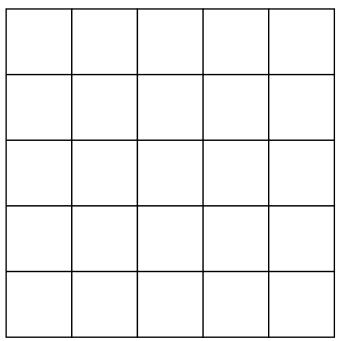
..::SOLUTION::..: Solvable in 2 moves (blocks positions: {(3, 3): <Color: blue>, (4, 0): <Color: blue>, (4, 2): <Color: blue>, (4, 3): <Color: blue>})

INITIAL STATE: (MOVE 1)
Perform: move_left at position: (3, 3):
Perform: move_left at position: (3, 2):

FINAL STATE

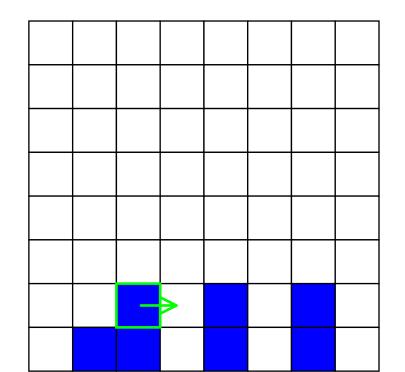




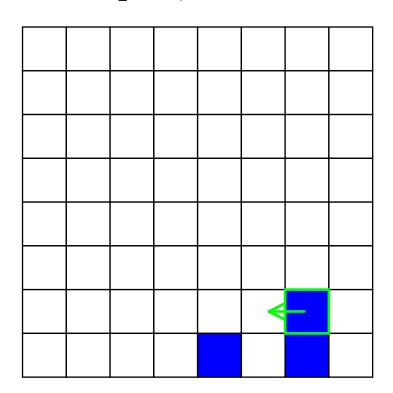


..::SOLUTION:...: Solvable in 2 moves (blocks positions: {(6, 2): <Color: blue>, (6, 4): <Color: blue>, (6, 6): <Color: blue>, (7, 1): <Color: blue>, (7, 2): <Color: blue>, (7, 4): <Color: blue>,

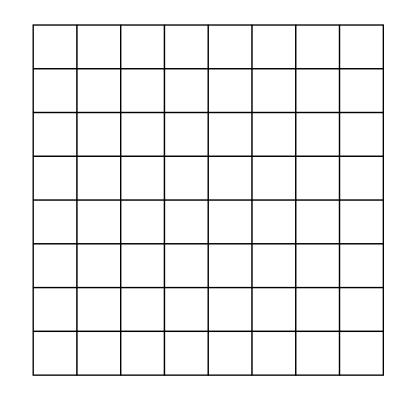
INITIAL STATE: (MOVE 1)
Perform: move_right at position: (6, 2):



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

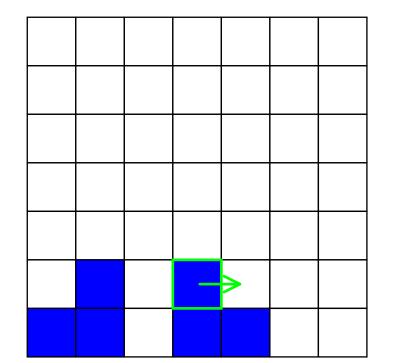


FINAL STATE

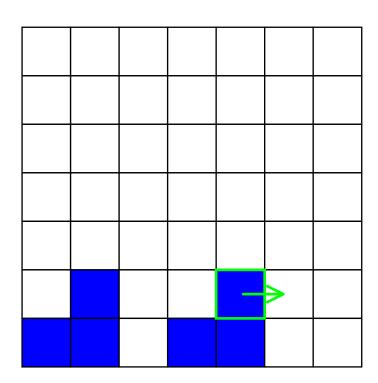


..::SOLUTION:...: Solvable in 3 moves (blocks positions: $\{(5, 1): < Color: blue >, (5, 3): < Color: blue >, (6, 0): < Color: blue >, (6, 1): < Color: blue >, (6, 3): < Color: blue >, (6, 4): < C$

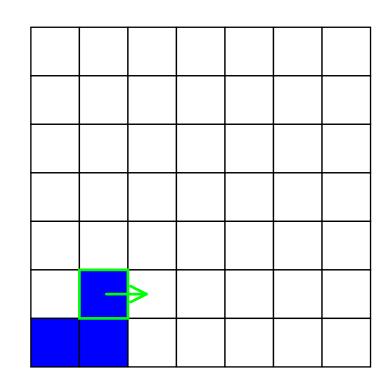
INITIAL STATE: (MOVE 1)
Perform: move_right at position: (5, 3):



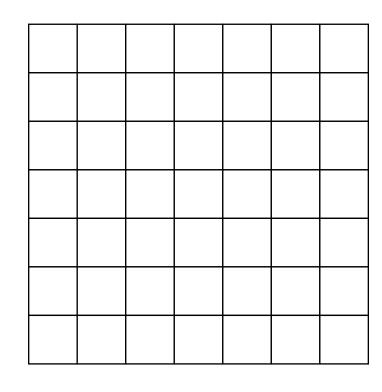
(MOVE 2)
Perform: move_right at position: (5, 4):



(MOVE 3)
Perform: move_right at position: (5, 1):



FINAL STATE



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

INITIAL STATE: (MOVE 1)

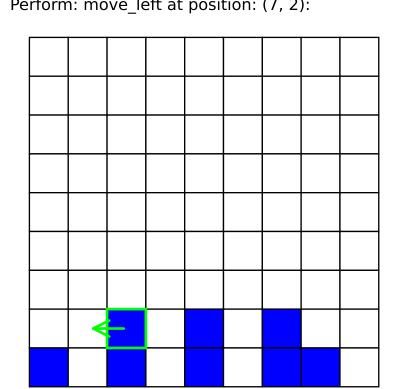
Perform: move_left at position: (7, 2):

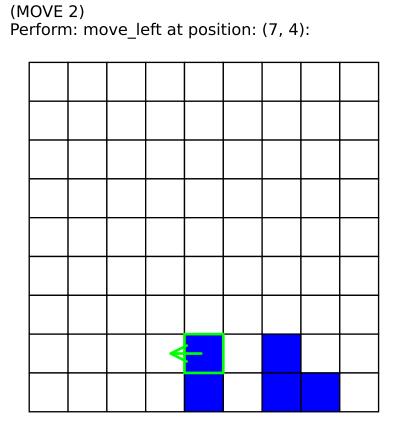
(MOVE 2)

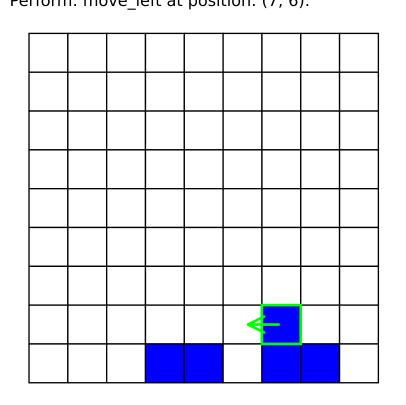
Perform: move_left at position: (7, 2):

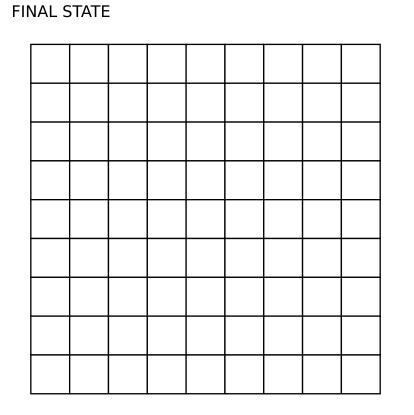
Perform: move_left at position: (7, 6):

FINAL STATE





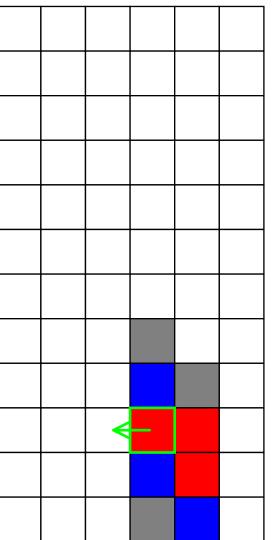


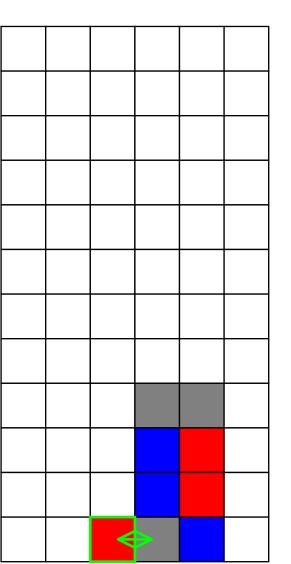


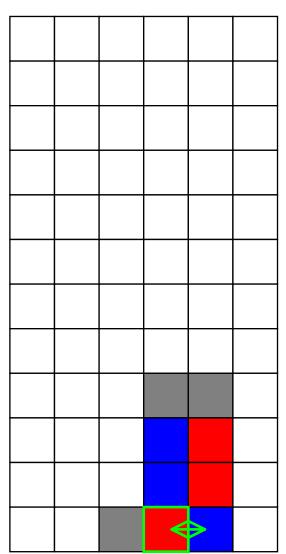
..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(7, 3): <Color: blue>, (8, 3): <Color: red>, (9, 3): <Color: red>, (10, 3): <Color: blue>, (11, 1): <Color: red>, (11, 3): <Color: blue>}) (MOVE 3)
Perform: move_right at position: (10, 3): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (7, 3): (MOVE 2)
Perform: move_left at position: (8, 3): FINAL STATE

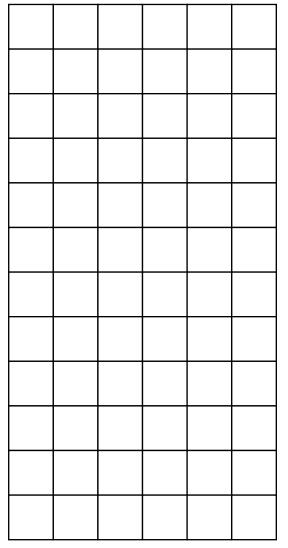
..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(8, 3): <Color: blue>, (9, 3): <Color: red>, (10, 3): <Color: blue>, (10, 5): <Color: red>, (11, 3): <Color: red>, (11, 5): <Color: red>}) (MOVE 3)
Perform: move_right at position: (10, 3): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (9, 3): (MOVE 2)
Perform: move_left at position: (10, 5): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(7, 3): <Color: gray>, (8, 3): <Color: blue>, (8, 4): <Color: gray>, (9, 3): <Color: red>, (9, 4): <Color: red>, (10, 3): <Color: blue>, (10, 4): <Color: red>, (11, 3): <Color: gray>, (11, 4): <Color: gray>, (11, 4): <Color: prod>, (10, 3): <Color: blue>, (10, 4): <Color: prod>, (10, 4): <Color: prod>, (10, 4): <Color: prod>, (11, 3): <Color: prod>, (11, 4): <Color: prod>, (11, 4): <Color: prod>, (10, 4): <Color: prod>, (11, 4): <Color: prod>, (11, 4): <Color: prod>, (11, 4): <Color: prod>, (10, 4): <Color: prod>, (11, 4): <Color: prod>, (10, 4): <Color: prod>, (10,

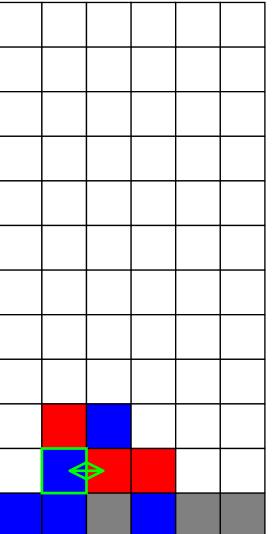


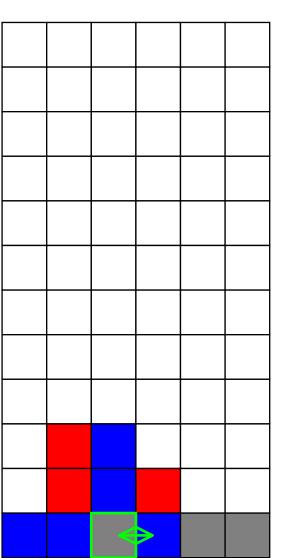


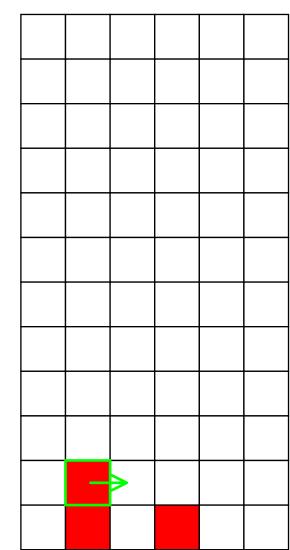


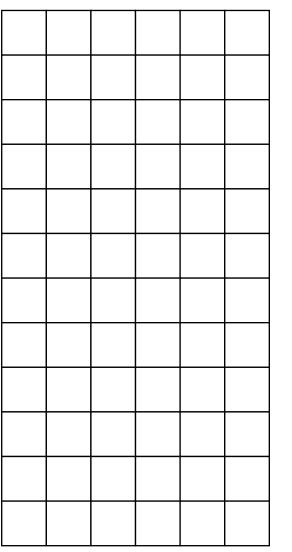


..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(9, 1): <Color: red>, (9, 2): <Color: blue>, (10, 1): <Color: blue>, (10, 2): <Color: red>, (10, 3): <Color: red>, (11, 0): <Color: blue>, (11, 1): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <INITIAL STATE: (MOVE 1)
Perform: exchange_right at position: (10, 1):
Perform: exchange_right at position: (10, 1):
Perform: move_right at position: (10,









..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(4, 2): <Color: blue>, (4, 5): <Color: blue>, (5, 2): <Color: blue>, (5, 3): <Color: blue>, (5, 5): <Color: blue>}) (MOVE 2)
Perform: move_left at position: (4, 2): INITIAL STATE: (MOVE 1)
Perform: move_right at position: (5, 3): (MOVE 3)
Perform: move_left at position: (4, 5): (MOVE 4)
Perform: move_left at position: (4, 4): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(8, 5): <Color: blue>, (8, 6): <Color: blue>, (8, 8): <Color: blue>, (9, 3): <Color: blue>, (9, 5): <Color: blue>, (9, 6): <Color: blue>, (9, 8): <Color: blue>, (9, 9): <Color: blue>, (9, 9): <Color: blue>, (9, 6): <Color: blue>, (9, 6): <Color: blue>, (9, 8): <Color: blue>, (9, 9): <Color: blue>, (9, 9): <Color: blue>, (9, 8): <C (MOVE 2)
Perform: move_right at position: (9, 6): (MOVE 3)
Perform: move_right at position: (9, 5): (MOVE 4)
Perform: move_right at position: (9, 6): INITIAL STATE: (MOVE 1) Perform: move_right at position: (9, 3): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(9, 1): <Color: blue>, (9, 3): <Color: blue>, (10, 1): <Color: blue>, (10, 3): <Color: blue>, (10, 5): <Color: blue>, (10, 6): <Color: blue>, (10, 8): <Color: blue>, (10, 10): <Color: blue>} (MOVE 4)
Perform: move_left at position: (10, 10): (MOVE 2)
Perform: move_left at position: (9, 5): (MOVE 3)
Perform: move_right at position: (10, 6): INITIAL STATE: (MOVE 1) Perform: move_right at position: (9, 1): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(10, 2): <Color: blue>, (10, 3): <Color: blue>, (11, 3): <Color: blue>, (11, 5): <Color: blue>, (11, 5): <Color: blue>, (11, 6): <Color: blue>, (11, 8): <Color: blue>, (11, 10): <Color: bl (MOVE 2)
Perform: move_left at position: (10, 5): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (10, 2): (MOVE 3)
Perform: move_right at position: (11, 6): (MOVE 4)
Perform: move_left at position: (10, 10): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(11, 2): <Color: blue>, (11, 4): <Color: blue>, (11, 7): <Color: blue>, (12, 0): <Color: blue>, (12, 2): <Color: blue>, (12, 4): <Color: blue>, (12, 6): <Color: blue>, (12, 7): <Color: blue>, (12, 7): <Color: blue>, (12, 6): <Color: blu (MOVE 2)
Perform: move_right at position: (11, 4): (MOVE 3)
Perform: move_left at position: (12, 11): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (11, 2): (MOVE 4)
Perform: move_left at position: (11, 9): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(9, 2): <Color: blue>, (9, 5): <Color: blue>, (10, 2): <Color: blue>, (10, 3): <Color: red>, (11, 1): <Color: red>, (11, 2): <Color: red>, (11, 3): <Color: blue>, (11, 5): <Color: blue>}) (MOVE 3)
Perform: move_left at position: (11, 5): (MOVE 4)
Perform: move_left at position: (11, 4): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (9, 2): (MOVE 2)
Perform: move_left at position: (9, 5): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(8, 3): <Color: blue>, (9, 3): <Color: blue>, (10, 5): <Color: blue>, (11, 1): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: blue>, (11, 5): <Color: red>}) (MOVE 3)
Perform: exchange_right at position: (11, 2): (MOVE 4)
Perform: exchange_right at position: (11, 3): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (8, 3): (MOVE 2)
Perform: move_left at position: (9, 5): FINAL STATE

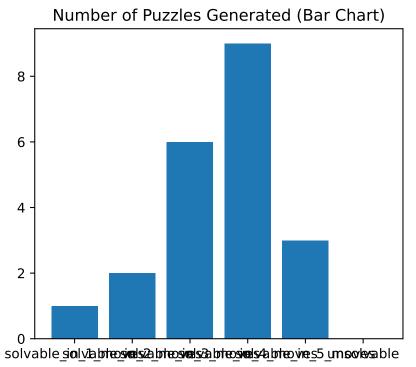
..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(6, 3): <Color: gray>, (7, 3): <Color: gray>, (8, 3): <Color: red>, (10, 1): <Color: red>, (10, 3): <Color: blue>, (11, 1): <Color: gray>, (11, 3): <Color: blue>, (11, 4): <Color: blue>, (11, 5): <Color: red>}) (MOVE 3)
Perform: move_left at position: (8, 3): (MOVE 4)
Perform: move_right at position: (10, 3): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (10, 3): (MOVE 2)
Perform: move_right at position: (10, 1): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(5, 3): <Color: blue>, (6, 3): <Color: blue>, (11, 4): <Color: gray>, (10, 2): <Color: gray>, (10, 2): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: gray>, (11, 5): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: gray>, (11, 5): <Color: blue>, (11, 2): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: blue>, (11, 4): <Color: blue>, (11, 4): <Color: blue>, (11, 2): <Color: blue>, (11, 2): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: blue> (MOVE 2)
Perform: move_right at position: (10, 3): (MOVE 3)
Perform: move_right at position: (7, 3): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (5, 3): (MOVE 4)
Perform: move_left at position: (9, 2): FINAL STATE

..::SOLUTION:...: Solvable in 5 moves (blocks positions: {(7, 4): <Color: red>, (8, 4): <Color: blue>, (9, 4): <Color: blue>, (10, 3): <Color: red>, (11, 2): <Color: blue>, (11, 3): <Color: red>, (11, 4): <Color: red>}) INITIAL STATE: (MOVE 1)
Perform: exchange_right at position: (11, 2): (MOVE 5)
Perform: exchange_right at position: (11, 2): (MOVE 2)
Perform: move_left at position: (7, 4): (MOVE 3)
Perform: move_left at position: (8, 4): (MOVE 4)
Perform: move_right at position: (10, 4): FINAL STATE

..::SOLUTION:...: Solvable in 5 moves (blocks positions: {(7, 1): <Color: red>, (8, 1): <Color: red>, (10, 4): <Color: red>, (10, 5): <Color: red>, (11, 1): <Color: red>, (11, 2): <Color: red>, (11, 3): <Color: blue>, (11, 4): <Color: red>, (11, 5): <Color: red>}) (MOVE 3)
Perform: exchange_right at position: (11, 2): (MOVE 4)
Perform: move_right at position: (10, 1): (MOVE 5)
Perform: move_right at position: (10, 2): (MOVE 2)
Perform: move_left at position: (8, 1): INITIAL STATE: (MOVE 1) Perform: move_right at position: (7, 1): FINAL STATE

..::SOLUTION:...: Solvable in 5 moves (blocks positions: {(9, 0): <Color: blue>, (10, 0): <Color: blue>, (11, 1): <Color: blue>, (11, 1): <Color: blue>, (11, 2): <Color: blue>, (11, 3): <Color: blue>, (11, 4): <Color: blue>, (11, 4): <Color: blue>, (11, 5): <Color: blue>}) (MOVE 3)
Perform: exchange_right at position: (10, 0): (MOVE 4)
Perform: move_left at position: (10, 1): (MOVE 5)
Perform: exchange_right at position: (11, 2): INITIAL STATE: (MOVE 1)
Perform: move_left at position: (10, 2): (MOVE 2)
Perform: move_right at position: (9, 3): FINAL STATE



Number of Puzzles Generated (Pie Chart)

