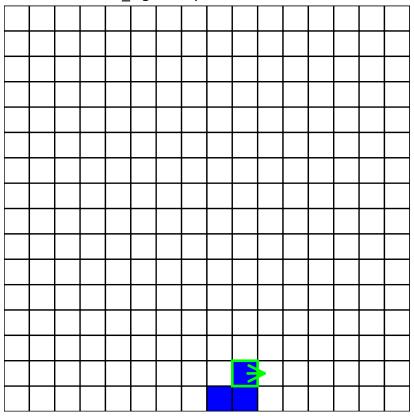
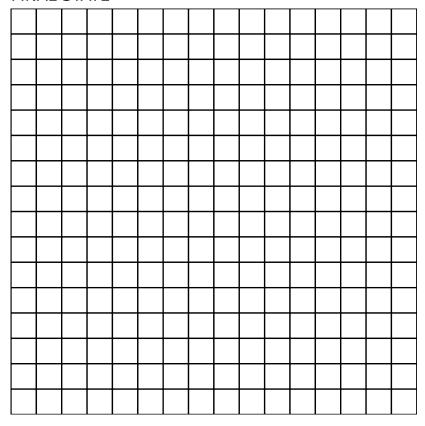
..::SOLUTION:...: Solvable in 1 moves (blocks positions: {(14, 9): <Color: blue>, (15, 8): <Color: blue>, (15, 9): <Color: blue>

INITIAL STATE: (MOVE 1)

Perform: move\_right at position: (14, 9):



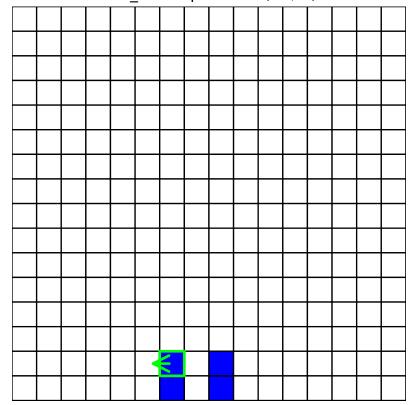
FINAL STATE



.:::SOLUTION::..: Solvable in 2 moves (blocks positions: {(14, 6): <Color: blue>, (14, 8): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue>})

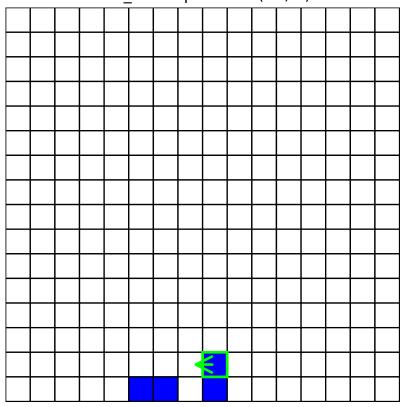
INITIAL STATE: (MOVE 1)

Perform: move\_left at position: (14, 6):

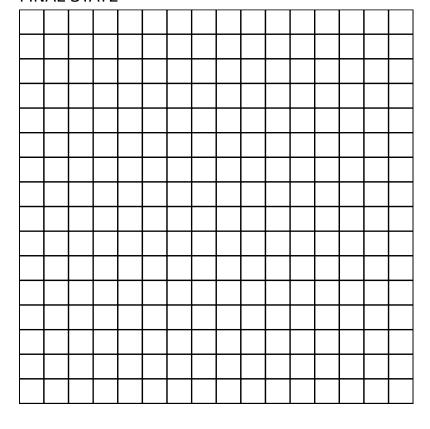


(MOVE 2)

Perform: move\_left at position: (14, 8):



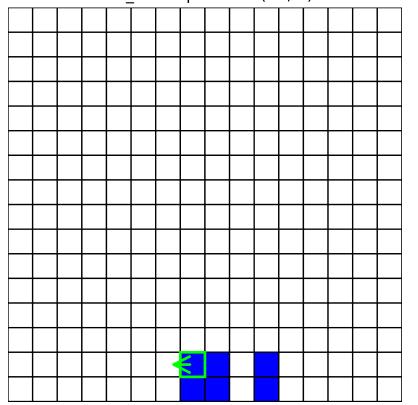
FINAL STATE



..::SOLUTION:...: Solvable in 2 moves (blocks positions: {(14, 7): <Color: blue>, (14, 8): <Color: blue>, (14, 10): <Color: blue>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Co

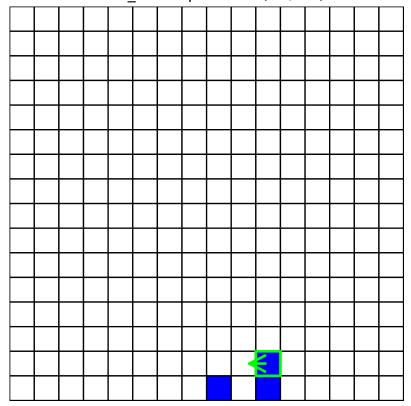
INITIAL STATE: (MOVE 1)

Perform: move\_left at position: (14, 7):

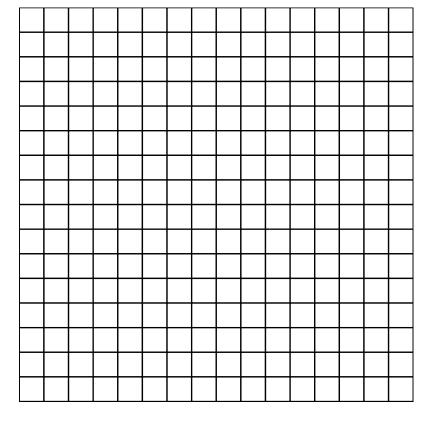


(MOVE 2)

Perform: move\_left at position: (14, 10):



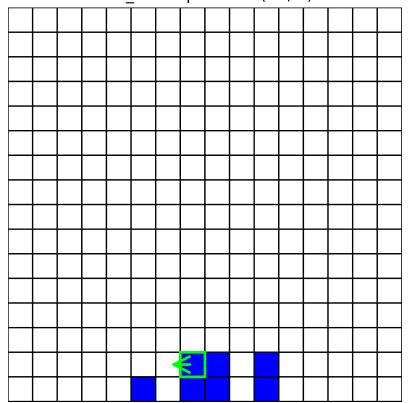
FINAL STATE



..::SOLUTION:..: Solvable in 2 moves (blocks positions: {(14, 7): <Color: blue>, (14, 8): <Color: blue>, (14, 10): <Color: blue>, (15, 5): <Color: blue>, (15, 7): <Color: blue>, (15, 8): <Color

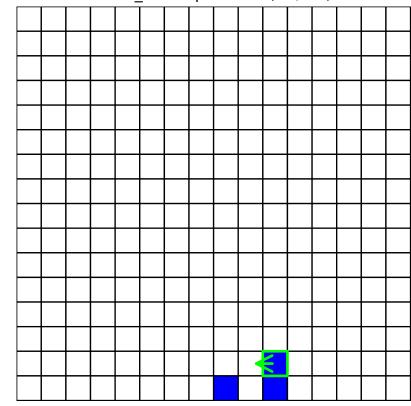
INITIAL STATE: (MOVE 1)

Perform: move\_left at position: (14, 7):

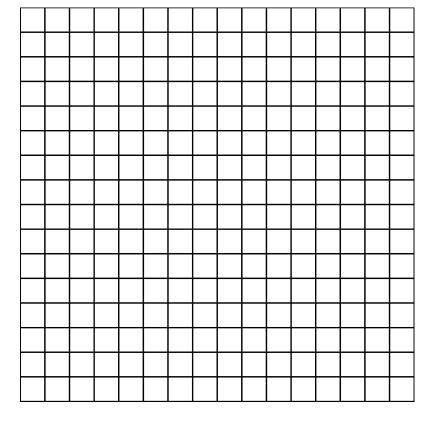


(MOVE 2)

Perform: move\_left at position: (14, 10):



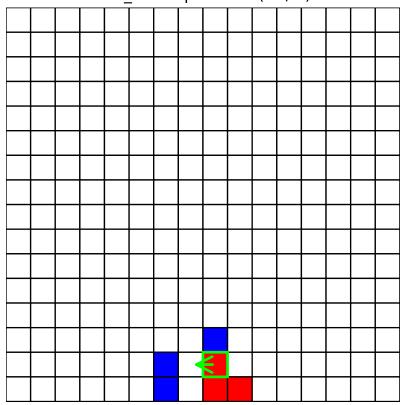
FINAL STATE



..::SOLUTION:...: Solvable in 2 moves (blocks positions: {(13, 8): <Color: blue>, (14, 6): <Color: blue>, (14, 8): <Color: red>, (15, 6): <Color: blue>, (15, 8): <Color: red>, (15, 8): <Color: red>, (15, 8): <Color: red>, (15, 9): <Color: red>, (15, 9): <Color: red>, (15, 8): <Color: red>, (15, 8)

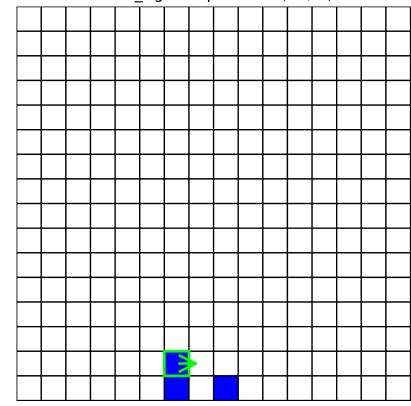
INITIAL STATE: (MOVE 1)

Perform: move\_left at position: (14, 8):

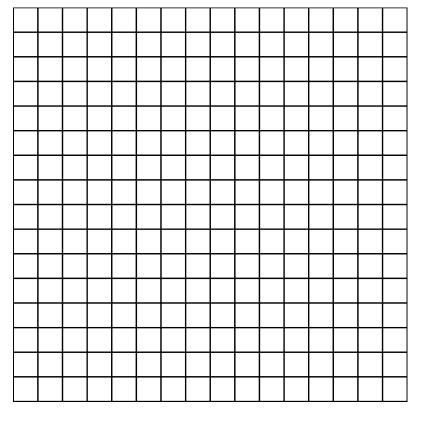


(MOVE 2)

Perform: move\_right at position: (14, 6):



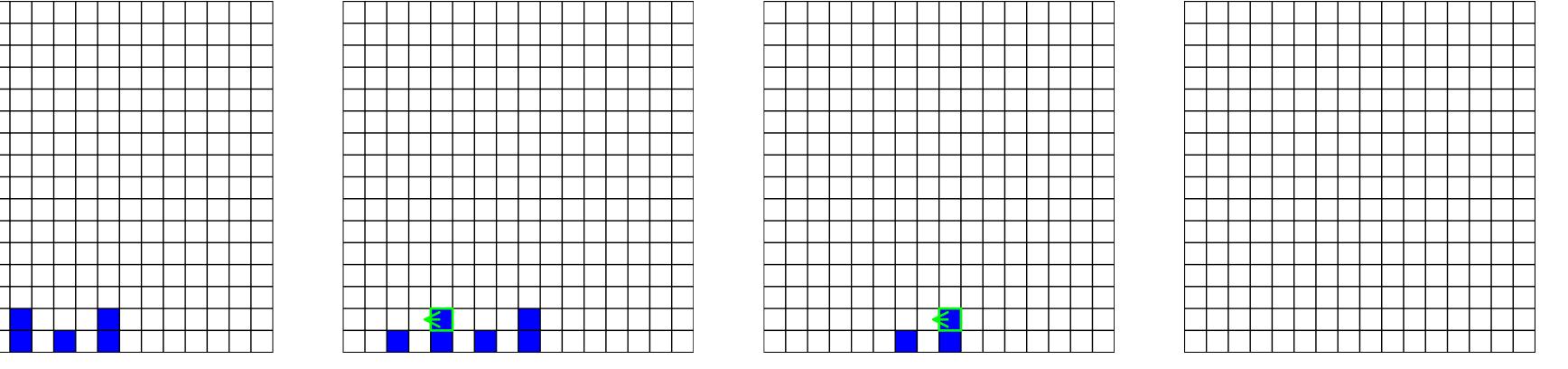
FINAL STATE



..::SOLUTION:..: Solvable in 3 moves (blocks positions: {(14, 8): <Color: blue>, (14, 10): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Color: blue>}) INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_right at position: (14, 10): Perform: move\_right at position: (15, 6): Perform: move\_right at position: (14, 8): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(14, 5): <Color: blue>, (14, 7): <Color: blue>, (15, 3): <Color: blue>, (15, 5): <Color: blue>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Color: blue>}) INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_right at position: (14, 8): Perform: move\_right at position: (15, 3): Perform: move\_right at position: (14, 5): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(14, 0): <Color: blue>, (14, 2): <Color: blue>, (14, 4): <Color: blue>, (15, 0): <Color: blue>, (15, 2): <Color: blue>, (15, 4): <Color: blue>, (15, 6): <Color: blue>, (15, 8): INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_right at position: (14, 0): Perform: move\_left at position: (14, 4): Perform: move\_left at position: (14, 8): FINAL STATE

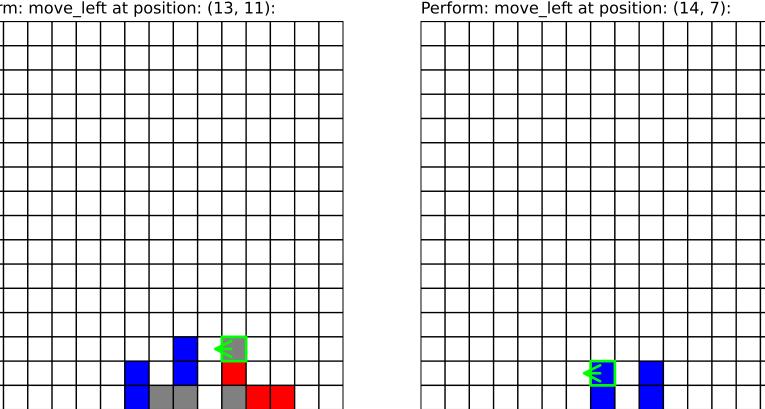


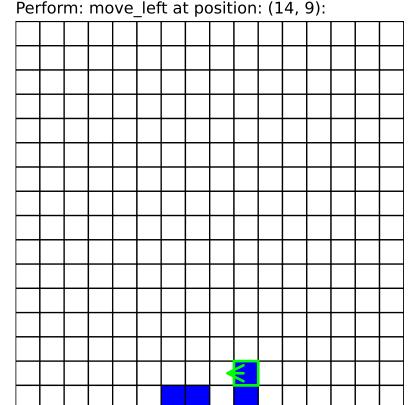
..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(14, 4): <Color: blue>, (14, 5): <Color: blue>, (14, 7): <Color: blue>, (14, 10): <Color: blue>, (15, 4): <Color: blue>, (15, 5): <Color: blue>, (15, 7): <Color: blue>, (15, 8) INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_left at position: (14, 4): Perform: move\_left at position: (14, 7): Perform: move\_left at position: (14, 10): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(12, 8): <Color: red>, (13, 8): <Color: blue>, (14, 8): <Color: red>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 9): <Color: red>, (15, 10): <Color: blue>}) INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_left at position: (13, 8): Perform: exchange\_right at position: (15, 8): Perform: move\_right at position: (14, 7): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(14, 8): <Color: red>, (14, 10): <Color: blue>, (15, 5): <Color: blue>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 9): <Color: red>, (15, 10): <Color: blue>, (15, 1) INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_right at position: (14, 11): Perform: move\_right at position: (15, 5): Perform: exchange\_right at position: (15, 10): FINAL STATE

..::SOLUTION:...: Solvable in 3 moves (blocks positions: {(11, 8): <Color: red>, (12, 8): <Color: blue>, (12, 9): <Color: blue>, (13, 8): <Color: red>, (14, 8): <Color: gray>, (14, 9): <Color: gray>, (15, 8): <Color: gray> INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) Perform: move\_left at position: (14, 8): Perform: move\_left at position: (12, 8): Perform: move\_right at position: (15, 9): FINAL STATE





..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(14, 7): <Color: blue>, (14, 12): <Color: blue>, (15, 13): <Color: blue>, (15, 15): <Color: blue>, (15, 15): <Color: blue>, (15, 16): <Col (MOVE 3)
Perform: move\_right at position: (15, 8): (MOVE 4)
Perform: move\_left at position: (15, 12): (MOVE 2) INITIAL STATE: (MOVE 1) Perform: move\_left at position: (14, 15): Perform: move\_left at position: (14, 7): FINAL STATE

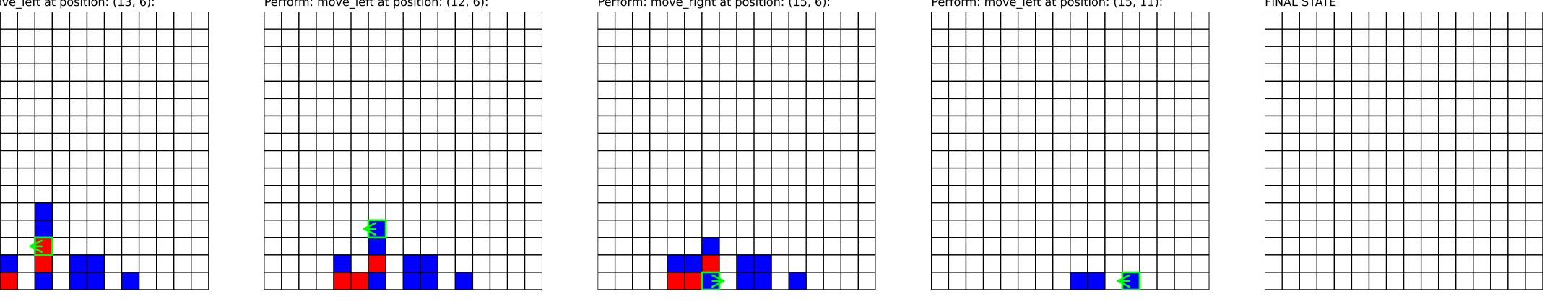
..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(14, 4): <Color: blue>, (14, 6): <Color: blue>, (14, 10): <Color: blue>, (14, 12): <Color: blue>, (15, 6): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Color: b (MOVE 3)
Perform: move\_right at position: (14, 10): (MOVE 4)
Perform: move\_left at position: (14, 14): (MOVE 2) INITIAL STATE: (MOVE 1) Perform: move\_right at position: (14, 4): Perform: move\_left at position: (14, 8): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(14, 6): <Color: blue>, (14, 8): <Color: blue>, (14, 12): <Color: blue>, (15, 5): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: blue>, (15, 11): <Color: blue>, (15, 11): <Color: blue>, (15, 12): <Color: blue>, (15, 12): <Color: blue>, (15, 14, 14): <Color: blue>, (15, 15): <Color (MOVE 3)
Perform: move\_right at position: (15, 9): (MOVE 4)
Perform: move\_left at position: (14, 14): INITIAL STATE: (MOVE 1) (MOVE 2) Perform: move\_right at position: (15, 3): Perform: move\_left at position: (14, 8): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(14, 0): <Color: blue>, (14, 4): <Color: blue>, (15, 4): <Color: blue>, (15, 4): <Color: blue>, (15, 6): <Color: blue>, (15, 6): <Color: blue>, (15, 6): <Color: blue>, (15, 6): <Color: blue>, (14, 6): <Color: blue>, (15, 6): <Color: blu (MOVE 3)
Perform: move\_right at position: (14, 6): (MOVE 4)
Perform: move\_left at position: (14, 11): (MOVE 2) INITIAL STATE: (MOVE 1) Perform: move\_left at position: (14, 4): Perform: move\_right at position: (14, 0): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(12, 8): <Color: blue>, (13, 7): <Color: blue>, (14, 7): <Color: blue>, (14, 10): <Color: blue>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Color: b (MOVE 3)
Perform: move\_right at position: (15, 8): (MOVE 4)
Perform: move\_right at position: (14, 10): (MOVE 2) INITIAL STATE: (MOVE 1) Perform: move\_left at position: (14, 7): Perform: move\_right at position: (12, 8): FINAL STATE

..::SOLUTION:...: Solvable in 4 moves (blocks positions: {(11, 6): <Color: blue>, (12, 6): <Color: blue>, (14, 4): <Color: blue>, (14, 8): <Color: blue>, (14, 9): <Color: blue>, (15, 4): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blu (MOVE 3)
Perform: move\_right at position: (15, 6): (MOVE 4)
Perform: move\_left at position: (15, 11): (MOVE 2) INITIAL STATE: (MOVE 1) Perform: move\_left at position: (12, 6): Perform: move\_left at position: (13, 6): FINAL STATE



..::SOLUTION:..: Solvable in 5 moves (blocks positions: {(14, 2): <Color: blue>, (14, 3): <Color: blue>, (14, 5): <Color: blue>, (15, 3): <Color: blue>, (15, 5): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue>, (15, 10): <Color: blue>, (15, 11): <Color: blue>, (15, 10): <Color: blu INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) (MOVE 4) (MOVE 5) Perform: move\_right at position: (14, 8): Perform: move\_left at position: (14, 5): Perform: move\_right at position: (14, 11): Perform: move\_right at position: (15, 6): Perform: move\_left at position: (14, 2): FINAL STATE 

..::SOLUTION:..: Solvable in 5 moves (blocks positions: {(14, 8): <Color: red>, (14, 10): <Color: blue>, (15, 7): <Color: red>, (15, 9): <Color: blue>, (15, 10): <Color: red>, (15, 12): <Color: red>, (15, 13): <Color: red>}) INITIAL STATE: (MOVE 1) (MOVE 3) (MOVE 4) Perform: exchange\_right at position: (15, 7): Perform: exchange\_right at position: (15, 8): Perform: move\_right at position: (14, 8): Perform: exchange\_right at position: (14, 9): Perform: move\_right at position: (14, 10): FINAL STATE 

..::SOLUTION:..: Solvable in 5 moves (blocks positions: {(11, 8): <Color: blue>, (13, 8): <Color: blue>, (14, 6): <Color: blue>, (15, 5): <Color: blue>, (15, 6): <Color: blue>, (15, 8): <Color: blue INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) (MOVE 4) Perform: move\_right at position: (14, 5): Perform: move\_right at position: (14, 6): Perform: move\_left at position: (14, 8): Perform: move\_left at position: (11, 8): Perform: move\_right at position: (15, 5): FINAL STATE 

..::SOLUTION:..: Solvable in 5 moves (blocks positions: {(12, 8): <Color: red>, (13, 8): <Color: red>, (14, 11): <Color: red>, (15, 6): <Color: red>, (15, 8): <Color: red>, (15, 9): <Color: red>, (15, 9): <Color: red>, (15, 10): <Color: red>, (15, 11): <Color: red>} INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) (MOVE 4) Perform: move\_left at position: (15, 11): Perform: move\_right at position: (15, 4): Perform: move\_right at position: (15, 10): Perform: move\_left at position: (14, 8): Perform: move\_right at position: (13, 10): FINAL STATE 

..::SOLUTION:...: Solvable in 5 moves (blocks positions: {(13, 8): <Color: red>, (14, 11): <Color: red>, (15, 4): <Color: red>, (15, 5): <Color: red>, (15, 6): <Color: red>, (15, 6): <Color: red>, (15, 7): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: red>, (15, 8): <Color: blue>, (15, 8): <Color: blue>, (15, 8): <Color: red>, (15, 11): <Color: red>, (15, 11): <Color: red>, (15, 11): <Color: red>, (15, 11): <Color: blue>, (15, 12): INITIAL STATE: (MOVE 1) (MOVE 3) (MOVE 4) (MOVE 5) Perform: move\_left at position: (15, 11): Perform: move\_right at position: (14, 8): Perform: move\_left at position: (13, 11): Perform: exchange\_right at position: (15, 6): Perform: exchange\_right at position: (14, 7): FINAL STATE 

..::SOLUTION:..: Solvable in 5 moves (blocks positions: {(12, 7): <Color: blue>, (13, 7): <Color: blue>, (14, 15): <Color: blue>, (15, 15): <Color: blue>, (14, 15): <Color: blue>, (14, 15): <Color: blue>, (14, 15): <Color: blue>, (15, 16, 17): <Color: blue>, (15, 16, 17): <Color: blue>, (15, 16, 17): <Color: blue>, (15, INITIAL STATE: (MOVE 1) (MOVE 2) (MOVE 3) (MOVE 4) Perform: move\_right at position: (14, 8): Perform: move\_left at position: (13, 7): Perform: move\_right at position: (15, 11): Perform: move\_left at position: (14, 15): Perform: move\_right at position: (12, 7): FINAL STATE 

..::SOLUTION:...: Solvable in 5 moves (blocks positions: {(12, 8): <Color: blue>, (13, 8): <Color: blue>, (14, 10): <Color: blue>, (15, 10): <Colo INITIAL STATE: (MOVE 1) (MOVE 3) (MOVE 4) Perform: move\_left at position: (13, 10): Perform: move\_right at position: (13, 11): Perform: move\_left at position: (14, 8): Perform: move\_left at position: (13, 8): Perform: exchange\_right at position: (13, 10): FINAL STATE 

