COM2001: Advanced Programming Topics

Assignment 2

**Test Results**

**Functions**

**Variable names:**  **hand** : A hand

**brd** : A board

**seed** : An integer used to initialise the random number generator

**p1** : Player 1

**p2** : Player 2

\*Note: The player will only be called if there is at least one domino in its hand which can be played. Therefore, we do not need a test case where the hand is empty.

**1. simplePlayer**

* **Test Case**
  1. A **random hand** is given to an **empty board**
  2. A **first domino** in the hand which will go to **L** is given to a **random board**
  3. A **first domino** in the hand which will go to **R** is given to a **random board**

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**Table 1. Test results of simplePlayer**

**2. hsdPlayer**

* **Test Case**
  1. A **random hand** is given to an **empty board**
  2. A **random hand** which the highest scoring domino will be played at **L** is given to a **random board**
  3. A **random hand** which the highest scoring domino will be played at **R** is given to a **random board**

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**Table 2. Test results of hsdPlayer**

**3. shuffleDoms**

* **Test Case:** Test whether **different seed** return **different order** of dominoes set

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**Table 3. Test results of shuffleDoms**

**4. playDomsRound**

* **Test Case**
  1. Both Player 1 and Player 2 are **simplePlayer**
  2. Player 1 is **simplePlayer**, Player 2 is **hsdPlayer**
  3. Player 1 is **hsdPlayer**, Player 2 is **simplePlayer**
  4. Both Player 1 and Player 2 are **hsdPlayer**

\*For full debugging log, see page 5 - 8



**Table 4. Test results of playDomsRound**

Conclusion: **hsdPlayer** always win **simplePlayer**

**Test Execution Logs**

\*Dominoes> simplePlayer [(3,3), (5,4), (6,1)] []

((3,3),L)

\*Dominoes> simplePlayer [(1,2), (4,4)] []

((1,2),L)

\*Dominoes> simplePlayer [(3,3), (5,4), (6,1)] [(3,1), (1,2)]

((3,3),L)

\*Dominoes> simplePlayer [(3,3), (5,4), (6,2)] [(6,1), (1,2)]

((6,2),L)

\*Dominoes> simplePlayer [(3,2), (5,4), (6,2)] [(6,1), (1,2)]

((3,2),R)

\*Dominoes> simplePlayer [(3,4), (5,4), (4,2)] [(6,1), (1,2)]

((4,2),R)

\*Dominoes> hsdPlayer [(3,3), (5,4), (6,1)] []

((5,4),R)

\*Dominoes> hsdPlayer [(1,2), (4,4)] []

((1,2),R)

\*Dominoes> hsdPlayer [(5,4), (2,3), (4,1)] [(4,2), (2,5)]

((5,4),L)

\*Dominoes> hsdPlayer [(6,6), (1,4), (6,3)] [(6,2), (2,3)]

((6,6),L)

\*Dominoes> hsdPlayer [(2,6), (3,2), (2,0)] [(3,1), (1,2)]

((2,6),R)

\*Dominoes> hsdPlayer [(1,2), (1,1)] [(5,5), (5,1)]

((1,2),R)

\*Dominoes> shuffleDoms 42

[(4,4),(3,0),(3,2),(5,1),(1,1),(6,6),(2,0),(4,2),(4,0),(5,5),(6,0),(5,4),(0,0),(2,2),(3,1),(2,1),(6,4),(5,0),(6,1),(6,5),(6,3),(4,1),(6,2),(5,2),(1,0),(3,3),(4,3),(5,3)]

\*Dominoes> shuffleDoms 110

[(3,2),(1,1),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2),(5,4),(5,1),(0,0),(4,2),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1),(6,2),(5,3),(2,1),(3,3),(6,3),(6,0),(6,5),(5,5),(5,2),(4,4)]

\*Dominoes> shuffleDoms 123

[(3,1),(1,0),(4,3),(6,3),(6,6),(6,4),(1,1),(6,1),(2,1),(3,0),(6,0),(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2),(6,2),(4,1),(5,1),(0,0),(6,5),(5,4),(3,3),(3,2),(4,0),(5,3)]

\*Dominoes> playDomsRound simplePlayer simplePlayer 42

"Player 1 plays (4,4) at L scoring 0, board is [(4,4)], hand is [(3,0),(3,2),(5,1),(1,1),(6,6),(2,0),(4,2),(4,0)]"

"Player 2 plays (5,4) at L scoring 0, board is [(5,4),(4,4)], hand is [(5,5),(6,0),(0,0),(2,2),(3,1),(2,1),(6,4),(5,0)]"

"Player 1 plays (5,1) at L scoring 3, board is [(1,5),(5,4),(4,4)], hand is [(3,0),(3,2),(1,1),(6,6),(2,0),(4,2),(4,0)]"

"Player 2 plays (3,1) at L scoring 0, board is [(3,1),(1,5),(5,4),(4,4)], hand is [(5,5),(6,0),(0,0),(2,2),(2,1),(6,4),(5,0)]"

"Player 1 plays (3,0) at L scoring 0, board is [(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(3,2),(1,1),(6,6),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,0) at L scoring 0, board is [(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(5,5),(0,0),(2,2),(2,1),(6,4),(5,0)]"

"Player 1 plays (6,6) at L scoring 4, board is [(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(3,2),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,4) at L scoring 4, board is [(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(5,5),(0,0),(2,2),(2,1),(5,0)]"

"Player 1 plays (4,2) at L scoring 2, board is [(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(3,2),(1,1),(2,0),(4,0)]"

"Player 2 plays (2,2) at L scoring 4, board is [(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(5,5),(0,0),(2,1),(5,0)]"

"Player 1 plays (3,2) at L scoring 0, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4)], hand is [(1,1),(2,0),(4,0)]"

"Player 1 plays (4,0) at R scoring 1, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4),(4,0)], hand is [(1,1),(2,0)]"

"Player 2 plays (0,0) at R scoring 1, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4),(4,0),(0,0)], hand is [(5,5),(2,1),(5,0)]"

"Player 1 plays (2,0) at R scoring 1, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4),(4,0),(0,0),(0,2)], hand is [(1,1)]"

"Player 2 plays (2,1) at R scoring 0, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4),(4,0),(0,0),(0,2),(2,1)], hand is [(5,5),(5,0)]"

"Player 1 plays (1,1) at R scoring 1, board is [(3,2),(2,2),(2,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,4),(4,4),(4,0),(0,0),(0,2),(2,1),(1,1)], hand is []"

(12,9)

\*Dominoes> playDomsRound simplePlayer hsdPlayer 42

"Player 1 plays (4,4) at L scoring 0, board is [(4,4)], hand is [(3,0),(3,2),(5,1),(1,1),(6,6),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,4) at R scoring 0, board is [(4,4),(4,6)], hand is [(5,5),(6,0),(5,4),(0,0),(2,2),(3,1),(2,1),(5,0)]"

"Player 1 plays (6,6) at R scoring 4, board is [(4,4),(4,6),(6,6)], hand is [(3,0),(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,0) at R scoring 0, board is [(4,4),(4,6),(6,6),(6,0)], hand is [(5,5),(5,4),(0,0),(2,2),(3,1),(2,1),(5,0)]"

"Player 1 plays (3,0) at R scoring 0, board is [(4,4),(4,6),(6,6),(6,0),(0,3)], hand is [(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (3,1) at R scoring 3, board is [(4,4),(4,6),(6,6),(6,0),(0,3),(3,1)], hand is [(5,5),(5,4),(0,0),(2,2),(2,1),(5,0)]"

"Player 1 plays (5,1) at R scoring 0, board is [(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5)], hand is [(3,2),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (5,5) at R scoring 6, board is [(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5)], hand is [(5,4),(0,0),(2,2),(2,1),(5,0)]"

"Player 1 plays (4,2) at L scoring 4, board is [(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5)], hand is [(3,2),(1,1),(2,0),(4,0)]"

"Player 2 plays (5,4) at R scoring 2, board is [(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4)], hand is [(0,0),(2,2),(2,1),(5,0)]"

"Player 1 plays (3,2) at L scoring 0, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4)], hand is [(1,1),(2,0),(4,0)]"

"Player 1 plays (4,0) at R scoring 1, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0)], hand is [(1,1),(2,0)]"

"Player 2 plays (0,0) at R scoring 1, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0),(0,0)], hand is [(2,2),(2,1),(5,0)]"

"Player 1 plays (2,0) at R scoring 1, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0),(0,0),(0,2)], hand is [(1,1)]"

"Player 2 plays (2,2) at R scoring 0, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0),(0,0),(0,2),(2,2)], hand is [(2,1),(5,0)]"

"Player 2 plays (2,1) at R scoring 0, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0),(0,0),(0,2),(2,2),(2,1)], hand is [(5,0)]"

"Player 1 plays (1,1) at R scoring 1, board is [(3,2),(2,4),(4,4),(4,6),(6,6),(6,0),(0,3),(3,1),(1,5),(5,5),(5,4),(4,0),(0,0),(0,2),(2,2),(2,1),(1,1)], hand is []"

(11,12)

\*Dominoes> playDomsRound hsdPlayer simplePlayer 42

"Player 1 plays (6,6) at R scoring 4, board is [(6,6)], hand is [(4,4),(3,0),(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,0) at L scoring 4, board is [(0,6),(6,6)], hand is [(5,5),(5,4),(0,0),(2,2),(3,1),(2,1),(6,4),(5,0)]"

"Player 1 plays (3,0) at L scoring 8, board is [(3,0),(0,6),(6,6)], hand is [(4,4),(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (3,1) at L scoring 0, board is [(1,3),(3,0),(0,6),(6,6)], hand is [(5,5),(5,4),(0,0),(2,2),(2,1),(6,4),(5,0)]"

"Player 1 plays (5,1) at L scoring 0, board is [(5,1),(1,3),(3,0),(0,6),(6,6)], hand is [(4,4),(3,2),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (5,5) at L scoring 0, board is [(5,5),(5,1),(1,3),(3,0),(0,6),(6,6)], hand is [(5,4),(0,0),(2,2),(2,1),(6,4),(5,0)]"

"Player 2 plays (5,4) at L scoring 0, board is [(4,5),(5,5),(5,1),(1,3),(3,0),(0,6),(6,6)], hand is [(0,0),(2,2),(2,1),(6,4),(5,0)]"

"Player 1 plays (4,4) at L scoring 4, board is [(4,4),(4,5),(5,5),(5,1),(1,3),(3,0),(0,6),(6,6)], hand is [(3,2),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,4) at L scoring 6, board is [(6,4),(4,4),(4,5),(5,5),(5,1),(1,3),(3,0),(0,6),(6,6)], hand is [(0,0),(2,2),(2,1),(5,0)]"

(16,10)

\*Dominoes> playDomsRound hsdPlayer hsdPlayer 42

"Player 1 plays (6,6) at R scoring 4, board is [(6,6)], hand is [(4,4),(3,0),(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,0) at R scoring 4, board is [(6,6),(6,0)], hand is [(5,5),(5,4),(0,0),(2,2),(3,1),(2,1),(6,4),(5,0)]"

"Player 1 plays (3,0) at R scoring 8, board is [(6,6),(6,0),(0,3)], hand is [(4,4),(3,2),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (6,4) at L scoring 0, board is [(4,6),(6,6),(6,0),(0,3)], hand is [(5,5),(5,4),(0,0),(2,2),(3,1),(2,1),(5,0)]"

"Player 1 plays (3,2) at R scoring 2, board is [(4,6),(6,6),(6,0),(0,3),(3,2)], hand is [(4,4),(5,1),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (2,1) at R scoring 1, board is [(4,6),(6,6),(6,0),(0,3),(3,2),(2,1)], hand is [(5,5),(5,4),(0,0),(2,2),(3,1),(5,0)]"

"Player 1 plays (5,1) at R scoring 3, board is [(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5)], hand is [(4,4),(1,1),(2,0),(4,2),(4,0)]"

"Player 2 plays (5,4) at L scoring 2, board is [(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5)], hand is [(5,5),(0,0),(2,2),(3,1),(5,0)]"

"Player 2 plays (5,5) at R scoring 8, board is [(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(0,0),(2,2),(3,1),(5,0)]"

"Player 2 plays (5,0) at L scoring 2, board is [(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(0,0),(2,2),(3,1)]"

"Player 1 plays (2,0) at L scoring 4, board is [(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(4,4),(1,1),(4,2),(4,0)]"

"Player 2 plays (2,2) at L scoring 0, board is [(2,2),(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(0,0),(3,1)]"

"Player 1 plays (4,2) at L scoring 0, board is [(4,2),(2,2),(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(4,4),(1,1),(4,0)]"

"Player 1 plays (4,4) at L scoring 6, board is [(4,4),(4,2),(2,2),(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(1,1),(4,0)]"

"Player 1 plays (4,0) at L scoring 2, board is [(0,4),(4,4),(4,2),(2,2),(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(1,1)]"

"Player 2 plays (0,0) at L scoring 2, board is [(0,0),(0,4),(4,4),(4,2),(2,2),(2,0),(0,5),(5,4),(4,6),(6,6),(6,0),(0,3),(3,2),(2,1),(1,5),(5,5)], hand is [(3,1)]"

(29,19)

\*Dominoes> playDomsRound simplePlayer simplePlayer 110

"Player 1 plays (3,2) at L scoring 1, board is [(3,2)], hand is [(1,1),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (4,2) at R scoring 0, board is [(3,2),(2,4)], hand is [(5,1),(0,0),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (4,0) at R scoring 1, board is [(3,2),(2,4),(4,0)], hand is [(1,1),(5,0),(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (0,0) at R scoring 1, board is [(3,2),(2,4),(4,0),(0,0)], hand is [(5,1),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (5,0) at R scoring 0, board is [(3,2),(2,4),(4,0),(0,0),(0,5)], hand is [(1,1),(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (5,1) at R scoring 0, board is [(3,2),(2,4),(4,0),(0,0),(0,5),(5,1)], hand is [(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (1,1) at R scoring 1, board is [(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1)], hand is [(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (1,0) at R scoring 1, board is [(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0)], hand is [(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (3,1) at L scoring 0, board is [(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0)], hand is [(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (2,0) at R scoring 1, board is [(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2)], hand is [(6,4),(3,0),(6,6),(6,1)]"

"Player 1 plays (4,1) at L scoring 2, board is [(4,1),(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2)], hand is [(4,3),(2,2),(5,4)]"

"Player 2 plays (6,4) at L scoring 0, board is [(6,4),(4,1),(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2)], hand is [(3,0),(6,6),(6,1)]"

"Player 1 plays (2,2) at R scoring 2, board is [(6,4),(4,1),(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2),(2,2)], hand is [(4,3),(5,4)]"

"Player 2 plays (6,6) at L scoring 0, board is [(6,6),(6,4),(4,1),(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2),(2,2)], hand is [(3,0),(6,1)]"

"Player 2 plays (6,1) at L scoring 1, board is [(1,6),(6,6),(6,4),(4,1),(1,3),(3,2),(2,4),(4,0),(0,0),(0,5),(5,1),(1,1),(1,0),(0,2),(2,2)], hand is [(3,0)]"

(7,4)

\*Dominoes> playDomsRound simplePlayer hsdPlayer 110

"Player 1 plays (3,2) at L scoring 1, board is [(3,2)], hand is [(1,1),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (2,0) at R scoring 1, board is [(3,2),(2,0)], hand is [(5,1),(0,0),(4,2),(1,0),(6,4),(3,0),(6,6),(6,1)]"

"Player 1 plays (4,0) at R scoring 0, board is [(3,2),(2,0),(0,4)], hand is [(1,1),(5,0),(3,1),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (6,4) at R scoring 3, board is [(3,2),(2,0),(0,4),(4,6)], hand is [(5,1),(0,0),(4,2),(1,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (3,1) at L scoring 0, board is [(1,3),(3,2),(2,0),(0,4),(4,6)], hand is [(1,1),(5,0),(4,1),(4,3),(2,2),(5,4)]"

"Player 2 plays (6,1) at L scoring 4, board is [(6,1),(1,3),(3,2),(2,0),(0,4),(4,6)], hand is [(5,1),(0,0),(4,2),(1,0),(3,0),(6,6)]"

"Player 2 plays (6,6) at R scoring 6, board is [(6,1),(1,3),(3,2),(2,0),(0,4),(4,6),(6,6)], hand is [(5,1),(0,0),(4,2),(1,0),(3,0)]"

(1,14)

\*Dominoes> playDomsRound hsdPlayer simplePlayer 110

"Player 1 plays (5,4) at R scoring 3, board is [(5,4)], hand is [(3,2),(1,1),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2)]"

"Player 2 plays (5,1) at L scoring 1, board is [(1,5),(5,4)], hand is [(0,0),(4,2),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (1,1) at L scoring 2, board is [(1,1),(1,5),(5,4)], hand is [(3,2),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2)]"

"Player 2 plays (4,2) at R scoring 0, board is [(1,1),(1,5),(5,4),(4,2)], hand is [(0,0),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (4,1) at L scoring 2, board is [(4,1),(1,1),(1,5),(5,4),(4,2)], hand is [(3,2),(4,0),(5,0),(3,1),(4,3),(2,2)]"

"Player 2 plays (6,4) at L scoring 0, board is [(6,4),(4,1),(1,1),(1,5),(5,4),(4,2)], hand is [(0,0),(1,0),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (3,2) at R scoring 3, board is [(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3)], hand is [(4,0),(5,0),(3,1),(4,3),(2,2)]"

"Player 2 plays (3,0) at R scoring 2, board is [(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0)], hand is [(0,0),(1,0),(2,0),(6,6),(6,1)]"

"Player 1 plays (4,0) at R scoring 2, board is [(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0),(0,4)], hand is [(5,0),(3,1),(4,3),(2,2)]"

"Player 2 plays (6,6) at L scoring 0, board is [(6,6),(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0),(0,4)], hand is [(0,0),(1,0),(2,0),(6,1)]"

"Player 1 plays (4,3) at R scoring 8, board is [(6,6),(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0),(0,4),(4,3)], hand is [(5,0),(3,1),(2,2)]"

"Player 2 plays (6,1) at L scoring 0, board is [(1,6),(6,6),(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0),(0,4),(4,3)], hand is [(0,0),(1,0),(2,0)]"

"Player 1 plays (3,1) at L scoring 2, board is [(3,1),(1,6),(6,6),(6,4),(4,1),(1,1),(1,5),(5,4),(4,2),(2,3),(3,0),(0,4),(4,3)], hand is [(5,0),(2,2)]"

(22,3)

\*Dominoes> playDomsRound hsdPlayer hsdPlayer 110

"Player 1 plays (5,4) at R scoring 3, board is [(5,4)], hand is [(3,2),(1,1),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2)]"

"Player 2 plays (5,1) at L scoring 1, board is [(1,5),(5,4)], hand is [(0,0),(4,2),(1,0),(6,4),(2,0),(3,0),(6,6),(6,1)]"

"Player 1 plays (1,1) at L scoring 2, board is [(1,1),(1,5),(5,4)], hand is [(3,2),(4,0),(5,0),(3,1),(4,1),(4,3),(2,2)]"

"Player 2 plays (6,1) at L scoring 2, board is [(6,1),(1,1),(1,5),(5,4)], hand is [(0,0),(4,2),(1,0),(6,4),(2,0),(3,0),(6,6)]"

"Player 1 plays (4,3) at R scoring 3, board is [(6,1),(1,1),(1,5),(5,4),(4,3)], hand is [(3,2),(4,0),(5,0),(3,1),(4,1),(2,2)]"

"Player 2 plays (6,6) at L scoring 8, board is [(6,6),(6,1),(1,1),(1,5),(5,4),(4,3)], hand is [(0,0),(4,2),(1,0),(6,4),(2,0),(3,0)]"

"Player 1 plays (3,2) at R scoring 0, board is [(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2)], hand is [(4,0),(5,0),(3,1),(4,1),(2,2)]"

"Player 2 plays (2,0) at R scoring 4, board is [(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0)], hand is [(0,0),(4,2),(1,0),(6,4),(3,0)]"

"Player 1 plays (5,0) at R scoring 0, board is [(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(4,0),(3,1),(4,1),(2,2)]"

"Player 2 plays (6,4) at L scoring 3, board is [(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(0,0),(4,2),(1,0),(3,0)]"

"Player 1 plays (4,1) at L scoring 2, board is [(1,4),(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(4,0),(3,1),(2,2)]"

"Player 2 plays (1,0) at L scoring 1, board is [(0,1),(1,4),(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(0,0),(4,2),(3,0)]"

"Player 1 plays (4,0) at L scoring 3, board is [(4,0),(0,1),(1,4),(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(3,1),(2,2)]"

"Player 2 plays (4,2) at L scoring 0, board is [(2,4),(4,0),(0,1),(1,4),(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(0,0),(3,0)]"

"Player 1 plays (2,2) at L scoring 3, board is [(2,2),(2,4),(4,0),(0,1),(1,4),(4,6),(6,6),(6,1),(1,1),(1,5),(5,4),(4,3),(3,2),(2,0),(0,5)], hand is [(3,1)]"

(16,19)

\*Dominoes> playDomsRound simplePlayer simplePlayer 123

"Player 1 plays (3,1) at L scoring 0, board is [(3,1)], hand is [(1,0),(4,3),(6,3),(6,6),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (3,0) at L scoring 0, board is [(0,3),(3,1)], hand is [(6,0),(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (1,0) at L scoring 0, board is [(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(1,1),(6,1),(2,1)]"

"Player 1 plays (1,1) at L scoring 1, board is [(1,1),(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(6,1),(2,1)]"

"Player 1 plays (6,1) at L scoring 0, board is [(6,1),(1,1),(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(2,1)]"

"Player 2 plays (6,0) at L scoring 0, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1)], hand is [(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (2,1) at R scoring 0, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2)], hand is [(4,3),(6,3),(6,6),(6,4)]"

"Player 2 plays (5,0) at L scoring 0, board is [(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2)], hand is [(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 2 plays (4,2) at R scoring 3, board is [(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4)], hand is [(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (4,3) at R scoring 0, board is [(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3)], hand is [(6,3),(6,6),(6,4)]"

"Player 2 plays (5,5) at L scoring 0, board is [(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3)], hand is [(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (6,3) at R scoring 0, board is [(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6)], hand is [(6,6),(6,4)]"

"Player 2 plays (5,2) at L scoring 0, board is [(2,5),(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6)], hand is [(2,0),(4,4),(2,2)]"

"Player 1 plays (6,6) at R scoring 0, board is [(2,5),(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6),(6,6)], hand is [(6,4)]"

"Player 2 plays (2,0) at L scoring 4, board is [(0,2),(2,5),(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6),(6,6)], hand is [(4,4),(2,2)]"

"Player 1 plays (6,4) at R scoring 0, board is [(0,2),(2,5),(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6),(6,6),(6,4)], hand is []"

"Player 2 plays (4,4) at R scoring 0, board is [(0,2),(2,5),(5,5),(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,4),(4,3),(3,6),(6,6),(6,4),(4,4)], hand is [(2,2)]"

(1,7)

\*Dominoes> playDomsRound simplePlayer hsdPlayer 123

"Player 1 plays (3,1) at L scoring 0, board is [(3,1)], hand is [(1,0),(4,3),(6,3),(6,6),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (3,0) at L scoring 0, board is [(0,3),(3,1)], hand is [(6,0),(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (1,0) at L scoring 0, board is [(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(1,1),(6,1),(2,1)]"

"Player 1 plays (1,1) at L scoring 1, board is [(1,1),(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(6,1),(2,1)]"

"Player 1 plays (6,1) at L scoring 0, board is [(6,1),(1,1),(1,0),(0,3),(3,1)], hand is [(4,3),(6,3),(6,6),(6,4),(2,1)]"

"Player 2 plays (6,0) at L scoring 0, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1)], hand is [(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (2,1) at R scoring 0, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2)], hand is [(4,3),(6,3),(6,6),(6,4)]"

"Player 2 plays (5,2) at R scoring 1, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,5)], hand is [(5,0),(4,2),(5,5),(2,0),(4,4),(2,2)]"

"Player 2 plays (5,5) at R scoring 2, board is [(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,5),(5,5)], hand is [(5,0),(4,2),(2,0),(4,4),(2,2)]"

"Player 2 plays (5,0) at L scoring 8, board is [(5,0),(0,6),(6,1),(1,1),(1,0),(0,3),(3,1),(1,2),(2,5),(5,5)], hand is [(4,2),(2,0),(4,4),(2,2)]"

(1,11)

\*Dominoes> playDomsRound hsdPlayer simplePlayer 123

"Player 1 plays (6,6) at R scoring 4, board is [(6,6)], hand is [(3,1),(1,0),(4,3),(6,3),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (6,0) at L scoring 4, board is [(0,6),(6,6)], hand is [(3,0),(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (6,3) at R scoring 1, board is [(0,6),(6,6),(6,3)], hand is [(3,1),(1,0),(4,3),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (3,0) at L scoring 2, board is [(3,0),(0,6),(6,6),(6,3)], hand is [(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (4,3) at R scoring 0, board is [(3,0),(0,6),(6,6),(6,3),(3,4)], hand is [(3,1),(1,0),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (4,2) at R scoring 1, board is [(3,0),(0,6),(6,6),(6,3),(3,4),(4,2)], hand is [(5,0),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (3,1) at L scoring 1, board is [(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2)], hand is [(1,0),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (2,0) at R scoring 0, board is [(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0)], hand is [(5,0),(5,5),(4,4),(5,2),(2,2)]"

"Player 1 plays (6,1) at L scoring 2, board is [(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0)], hand is [(1,0),(6,4),(1,1),(2,1)]"

"Player 2 plays (5,0) at R scoring 0, board is [(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5)], hand is [(5,5),(4,4),(5,2),(2,2)]"

"Player 1 plays (6,4) at L scoring 3, board is [(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5)], hand is [(1,0),(1,1),(2,1)]"

"Player 2 plays (5,5) at R scoring 0, board is [(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5)], hand is [(4,4),(5,2),(2,2)]"

"Player 2 plays (4,4) at L scoring 6, board is [(4,4),(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5)], hand is [(5,2),(2,2)]"

"Player 2 plays (5,2) at R scoring 2, board is [(4,4),(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5),(5,2)], hand is [(2,2)]"

"Player 1 plays (2,1) at R scoring 3, board is [(4,4),(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5),(5,2),(2,1)], hand is [(1,0),(1,1)]"

"Player 1 plays (1,1) at R scoring 2, board is [(4,4),(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5),(5,2),(2,1),(1,1)], hand is [(1,0)]"

"Player 1 plays (1,0) at R scoring 0, board is [(4,4),(4,6),(6,1),(1,3),(3,0),(0,6),(6,6),(6,3),(3,4),(4,2),(2,0),(0,5),(5,5),(5,2),(2,1),(1,1),(1,0)], hand is []"

(16,15)

\*Dominoes> playDomsRound hsdPlayer hsdPlayer 123

"Player 1 plays (6,6) at R scoring 4, board is [(6,6)], hand is [(3,1),(1,0),(4,3),(6,3),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (6,0) at R scoring 4, board is [(6,6),(6,0)], hand is [(3,0),(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (6,3) at L scoring 1, board is [(3,6),(6,6),(6,0)], hand is [(3,1),(1,0),(4,3),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (3,0) at R scoring 2, board is [(3,6),(6,6),(6,0),(0,3)], hand is [(5,0),(4,2),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (4,3) at R scoring 0, board is [(3,6),(6,6),(6,0),(0,3),(3,4)], hand is [(3,1),(1,0),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (4,2) at R scoring 1, board is [(3,6),(6,6),(6,0),(0,3),(3,4),(4,2)], hand is [(5,0),(5,5),(2,0),(4,4),(5,2),(2,2)]"

"Player 1 plays (3,1) at L scoring 1, board is [(1,3),(3,6),(6,6),(6,0),(0,3),(3,4),(4,2)], hand is [(1,0),(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (5,2) at R scoring 2, board is [(1,3),(3,6),(6,6),(6,0),(0,3),(3,4),(4,2),(2,5)], hand is [(5,0),(5,5),(2,0),(4,4),(2,2)]"

"Player 1 plays (1,0) at L scoring 1, board is [(0,1),(1,3),(3,6),(6,6),(6,0),(0,3),(3,4),(4,2),(2,5)], hand is [(6,4),(1,1),(6,1),(2,1)]"

"Player 2 plays (5,5) at R scoring 2, board is [(0,1),(1,3),(3,6),(6,6),(6,0),(0,3),(3,4),(4,2),(2,5),(5,5)], hand is [(5,0),(2,0),(4,4),(2,2)]"

"Player 2 plays (5,0) at L scoring 8, board is [(5,0),(0,1),(1,3),(3,6),(6,6),(6,0),(0,3),(3,4),(4,2),(2,5),(5,5)], hand is [(2,0),(4,4),(2,2)]"

(7,19)