

Problem 1:

Example 1 graph G1 is a Euler circuit: ['e', 'c', 'd', 'e', 'a', 'b', 'e']

Example 1 graph G2 is not a Euler circuit. The odd vertices are: {'c', 'd', 'a', 'b'}

Example 1 graph G3 is not a Euler circuit. The odd vertices are: {'a', 'b'}

Bridge graph is not a Euler circuit. The odd vertices are: {'a', 'd'}

Problem 1b graph is a Euler circuit: ['c', 'b', 'a', 'd', 'e', 'h', 'g', 'd', 'b', 'e', 'f', 'h', 'i', 'f', 'c']

Problem 2:

Example 5 graph G1 does not satisfy Dirac's condition and may be a Hamilton circuit

Example 5 graph G2 does not satisfy Dirac's condition and may be a Hamilton circuit

Example 5 graph G3 does not satisfy Dirac's condition and may be a Hamilton circuit

Test case 2 graph does not satisfy Dirac's condition and may be a Hamilton circuit

Problem 3:

Example 5 graph G1 satisfies Ore's condition and is a Hamilton circuit

Example 5 graph G2 does not satisfy Ore's condition and may be a Hamilton circuit

Example 5 graph G3 does not satisfy Ore's condition and may be a Hamilton circuit

Test case 2 graph does not satisfy Ore's condition and may be a Hamilton circuit

Problem 4:

Question 4a:

Piles: 2, 2, 1, Player: Max, Value: 1

 Piles: 1, 2, 1, Player: Min, Value: -1

 Piles: 0, 2, 1, Player: Max, Value: 1

 Piles: 0, 1, 1, Player: Min, Value: -1

 Piles: 0, 0, 1, Player: Max, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 0, 0, 1, Player: Min, Value: 1

 Piles: 0, 2, 0, Player: Min, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 1, 1, 1, Player: Max, Value: -1

 Piles: 0, 1, 1, Player: Min, Value: -1

 Piles: 0, 0, 1, Player: Max, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 1, 0, 1, Player: Min, Value: -1

 Piles: 0, 0, 1, Player: Max, Value: -1

 Piles: 1, 0, 0, Player: Max, Value: -1

 Piles: 1, 1, 0, Player: Min, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 1, 0, 0, Player: Max, Value: -1

 Piles: 1, 0, 1, Player: Max, Value: 1

 Piles: 0, 0, 1, Player: Min, Value: 1

 Piles: 1, 0, 0, Player: Min, Value: 1

 Piles: 1, 2, 0, Player: Max, Value: 1

 Piles: 0, 2, 0, Player: Min, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 1, 1, 0, Player: Min, Value: -1

 Piles: 0, 1, 0, Player: Max, Value: -1

 Piles: 1, 0, 0, Player: Max, Value: -1

 Piles: 1, 0, 0, Player: Min, Value: 1

 Piles: 0, 2, 1, Player: Min, Value: -1

 Piles: 0, 1, 1, Player: Max, Value: 1

 Piles: 0, 0, 1, Player: Min, Value: 1

 Piles: 0, 1, 0, Player: Min, Value: 1

 Piles: 0, 0, 1, Player: Max, Value: -1

 Piles: 0, 2, 0, Player: Max, Value: 1

 Piles: 0, 1, 0, Player: Min, Value: 1

Piles: 2, 1, 1, Player: Min, Value: -1
 Piles: 1, 1, 1, Player: Max, Value: -1
 Piles: 0, 1, 1, Player: Min, Value: -1
 Piles: 0, 0, 1, Player: Max, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 0, 1, Player: Min, Value: -1
 Piles: 0, 0, 1, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 1, 1, 0, Player: Min, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 0, 1, 1, Player: Max, Value: 1
 Piles: 0, 0, 1, Player: Min, Value: 1
 Piles: 0, 1, 0, Player: Min, Value: 1
 Piles: 2, 0, 1, Player: Max, Value: 1
 Piles: 1, 0, 1, Player: Min, Value: -1
 Piles: 0, 0, 1, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 0, 0, 1, Player: Min, Value: 1
 Piles: 2, 0, 0, Player: Min, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 2, 1, 0, Player: Max, Value: 1
 Piles: 1, 1, 0, Player: Min, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 0, 1, 0, Player: Min, Value: 1
 Piles: 2, 0, 0, Player: Min, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 2, 0, 1, Player: Min, Value: -1
 Piles: 1, 0, 1, Player: Max, Value: 1
 Piles: 0, 0, 1, Player: Min, Value: 1
 Piles: 1, 0, 0, Player: Min, Value: 1
 Piles: 0, 0, 1, Player: Max, Value: -1
 Piles: 2, 0, 0, Player: Max, Value: 1
 Piles: 1, 0, 0, Player: Min, Value: 1
 Piles: 2, 2, 0, Player: Min, Value: 1
 Piles: 1, 2, 0, Player: Max, Value: 1
 Piles: 0, 2, 0, Player: Min, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 1, 0, Player: Min, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Min, Value: 1
 Piles: 0, 2, 0, Player: Max, Value: 1
 Piles: 0, 1, 0, Player: Min, Value: 1
 Piles: 2, 1, 0, Player: Max, Value: 1
 Piles: 1, 1, 0, Player: Min, Value: -1
 Piles: 0, 1, 0, Player: Max, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 0, 1, 0, Player: Min, Value: 1
 Piles: 2, 0, 0, Player: Min, Value: -1
 Piles: 1, 0, 0, Player: Max, Value: -1
 Piles: 2, 0, 0, Player: Max, Value: 1
 Piles: 1, 0, 0, Player: Min, Value: 1

Question 4b:

Piles: 1, 2, 3, Player: Max, Value: -1
 Piles: 0, 2, 3, Player: Min, Value: -1
 Piles: 0, 1, 3, Player: Max, Value: 1

[illegible]

[illegible]

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Piles: 1, 1, 0, Player: Max, Value: 1
  Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 1, 0, 0, Player: Min, Value: 1
Piles: 1, 0, 3, Player: Min, Value: -1
  Piles: 0, 0, 3, Player: Max, Value: 1
    Piles: 0, 0, 2, Player: Min, Value: -1
      Piles: 0, 0, 1, Player: Max, Value: -1
        Piles: 0, 0, 1, Player: Min, Value: 1
      Piles: 1, 0, 2, Player: Max, Value: 1
        Piles: 0, 0, 2, Player: Min, Value: -1
          Piles: 0, 0, 1, Player: Max, Value: -1
          Piles: 1, 0, 1, Player: Min, Value: -1
            Piles: 0, 0, 1, Player: Max, Value: -1
            Piles: 1, 0, 0, Player: Max, Value: -1
          Piles: 1, 0, 0, Player: Min, Value: 1
        Piles: 1, 0, 1, Player: Max, Value: 1
          Piles: 0, 0, 1, Player: Min, Value: 1
          Piles: 1, 0, 0, Player: Min, Value: 1
        Piles: 1, 0, 0, Player: Max, Value: -1
Piles: 1, 2, 2, Player: Min, Value: -1
  Piles: 0, 2, 2, Player: Max, Value: -1
    Piles: 0, 1, 2, Player: Min, Value: -1
      Piles: 0, 0, 2, Player: Max, Value: 1
        Piles: 0, 0, 1, Player: Min, Value: 1
      Piles: 0, 1, 1, Player: Max, Value: 1
        Piles: 0, 0, 1, Player: Min, Value: 1
        Piles: 0, 1, 0, Player: Min, Value: 1
      Piles: 0, 1, 0, Player: Max, Value: -1
    Piles: 0, 0, 2, Player: Min, Value: -1
      Piles: 0, 0, 1, Player: Max, Value: -1
    Piles: 0, 2, 1, Player: Min, Value: -1
      Piles: 0, 1, 1, Player: Max, Value: 1
        Piles: 0, 0, 1, Player: Min, Value: 1
        Piles: 0, 1, 0, Player: Min, Value: 1
      Piles: 0, 0, 1, Player: Max, Value: -1
      Piles: 0, 2, 0, Player: Max, Value: 1
        Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 0, 2, 0, Player: Min, Value: -1
      Piles: 0, 1, 0, Player: Max, Value: -1
Piles: 1, 1, 2, Player: Max, Value: 1
  Piles: 0, 1, 2, Player: Min, Value: -1
    Piles: 0, 0, 2, Player: Max, Value: 1
      Piles: 0, 0, 1, Player: Min, Value: 1
    Piles: 0, 1, 1, Player: Max, Value: 1
      Piles: 0, 0, 1, Player: Min, Value: 1
      Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 0, 1, 0, Player: Max, Value: -1
  Piles: 1, 0, 2, Player: Min, Value: -1
    Piles: 0, 0, 2, Player: Max, Value: 1
      Piles: 0, 0, 1, Player: Min, Value: 1
    Piles: 1, 0, 1, Player: Max, Value: 1
      Piles: 0, 0, 1, Player: Min, Value: 1
      Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 0, 0, Player: Max, Value: -1
  Piles: 1, 1, 1, Player: Min, Value: 1
    Piles: 0, 1, 1, Player: Max, Value: 1
      Piles: 0, 0, 1, Player: Min, Value: 1
      Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 1, 0, 1, Player: Max, Value: 1

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        Piles: 0, 0, 1, Player: Min, Value: 1
        Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 1, 0, Player: Max, Value: 1
        Piles: 0, 1, 0, Player: Min, Value: 1
        Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 1, 0, Player: Min, Value: -1
        Piles: 0, 1, 0, Player: Max, Value: -1
        Piles: 1, 0, 0, Player: Max, Value: -1
    Piles: 1, 0, 2, Player: Max, Value: 1
        Piles: 0, 0, 2, Player: Min, Value: -1
        Piles: 0, 0, 1, Player: Max, Value: -1
    Piles: 1, 0, 1, Player: Min, Value: -1
        Piles: 0, 0, 1, Player: Max, Value: -1
        Piles: 1, 0, 0, Player: Max, Value: -1
    Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 2, 1, Player: Max, Value: 1
        Piles: 0, 2, 1, Player: Min, Value: -1
            Piles: 0, 1, 1, Player: Max, Value: 1
                Piles: 0, 0, 1, Player: Min, Value: 1
                Piles: 0, 1, 0, Player: Min, Value: 1
            Piles: 0, 0, 1, Player: Max, Value: -1
            Piles: 0, 2, 0, Player: Max, Value: 1
                Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 1, 1, 1, Player: Min, Value: 1
        Piles: 0, 1, 1, Player: Max, Value: 1
            Piles: 0, 0, 1, Player: Min, Value: 1
            Piles: 0, 1, 0, Player: Min, Value: 1
        Piles: 1, 0, 1, Player: Max, Value: 1
            Piles: 0, 0, 1, Player: Min, Value: 1
            Piles: 1, 0, 0, Player: Min, Value: 1
        Piles: 1, 1, 0, Player: Max, Value: 1
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            Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 0, 1, Player: Min, Value: -1
        Piles: 0, 0, 1, Player: Max, Value: -1
        Piles: 1, 0, 0, Player: Max, Value: -1
    Piles: 1, 2, 0, Player: Min, Value: -1
        Piles: 0, 2, 0, Player: Max, Value: 1
            Piles: 0, 1, 0, Player: Min, Value: 1
        Piles: 1, 1, 0, Player: Max, Value: 1
            Piles: 0, 1, 0, Player: Min, Value: 1
            Piles: 1, 0, 0, Player: Min, Value: 1
        Piles: 1, 0, 0, Player: Max, Value: -1
    Piles: 1, 2, 0, Player: Max, Value: 1
        Piles: 0, 2, 0, Player: Min, Value: -1
            Piles: 0, 1, 0, Player: Max, Value: -1
    Piles: 1, 1, 0, Player: Min, Value: -1
        Piles: 0, 1, 0, Player: Max, Value: -1
        Piles: 1, 0, 0, Player: Max, Value: -1
    Piles: 1, 0, 0, Player: Min, Value: 1
    Piles: 1, 2, 1, Player: Min, Value: -1
        Piles: 0, 2, 1, Player: Max, Value: 1
            Piles: 0, 1, 1, Player: Min, Value: -1
                Piles: 0, 0, 1, Player: Max, Value: -1
                Piles: 0, 1, 0, Player: Max, Value: -1
            Piles: 0, 0, 1, Player: Min, Value: 1
            Piles: 0, 2, 0, Player: Min, Value: -1
                Piles: 0, 1, 0, Player: Max, Value: -1
    Piles: 1, 1, 1, Player: Max, Value: -1

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Piles: 0, 1, 1, Player: Min, Value: -1
  Piles: 0, 0, 1, Player: Max, Value: -1
    Piles: 0, 1, 0, Player: Max, Value: -1
Piles: 1, 0, 1, Player: Min, Value: -1
  Piles: 0, 0, 1, Player: Max, Value: -1
    Piles: 1, 0, 0, Player: Max, Value: -1
Piles: 1, 1, 0, Player: Min, Value: -1
  Piles: 0, 1, 0, Player: Max, Value: -1
    Piles: 1, 0, 0, Player: Max, Value: -1
Piles: 1, 0, 1, Player: Max, Value: 1
  Piles: 0, 0, 1, Player: Min, Value: 1
    Piles: 1, 0, 0, Player: Min, Value: 1
Piles: 1, 2, 0, Player: Max, Value: 1
  Piles: 0, 2, 0, Player: Min, Value: -1
    Piles: 0, 1, 0, Player: Max, Value: -1
Piles: 1, 1, 0, Player: Min, Value: -1
  Piles: 0, 1, 0, Player: Max, Value: -1
    Piles: 1, 0, 0, Player: Max, Value: -1
Piles: 1, 0, 0, Player: Min, Value: 1
Piles: 1, 2, 0, Player: Min, Value: -1
  Piles: 0, 2, 0, Player: Max, Value: 1
    Piles: 0, 1, 0, Player: Min, Value: 1
Piles: 1, 1, 0, Player: Max, Value: 1
  Piles: 0, 1, 0, Player: Min, Value: 1
    Piles: 1, 0, 0, Player: Min, Value: 1
Piles: 1, 0, 0, Player: Max, Value: -1

```

Question 4c:

```

Start: 2, 2, 1
Player B's turn: 0, 2, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 0, 1
A is the winner

```

```

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

```

```

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 1, 0
Player A's turn: 0, 1, 0
B is the winner

```

```

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

```

```

Start: 2, 2, 1
Player B's turn: 0, 2, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

```

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1

Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 0, 2, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player B's turn: 0, 2, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0

Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 1, 1
Player A's turn: 0, 0, 1
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0

Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1

Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 0, 2, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 1, 2, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 1, 1
Player A's turn: 0, 1, 1
Player B's turn: 0, 1, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 0, 1
Player A's turn: 1, 0, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0
Player B's turn: 1, 0, 0
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 2, 2, 0
Player A's turn: 1, 2, 0

Player B's turn: 1, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 0, 0
Player A's turn: 1, 0, 0
B is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 2, 1, 0
Player A's turn: 0, 1, 0
B is the winner

Start: 2, 2, 1
Player B's turn: 1, 2, 1
Player A's turn: 0, 2, 1
Player B's turn: 0, 0, 1
A is the winner

Start: 2, 2, 1
Player A's turn: 2, 2, 0
Player B's turn: 0, 2, 0
Player A's turn: 0, 1, 0
B is the winner

Player A won 26 times, Player B won 74 times.