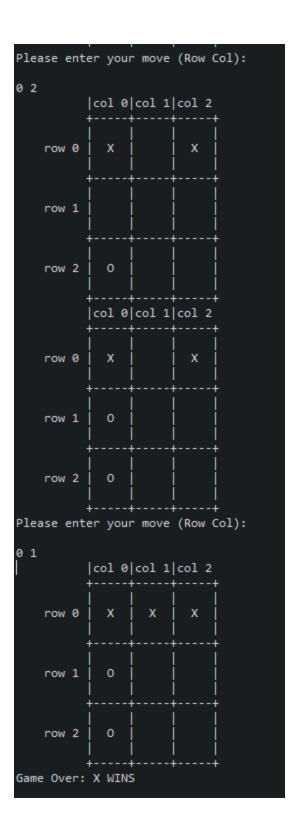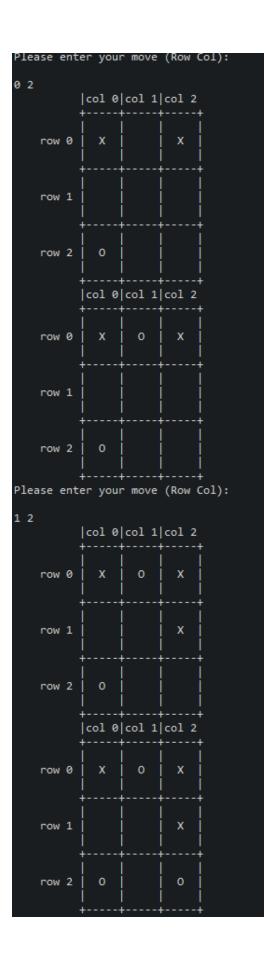**Human(X) vs Random(O)**

```
Please enter the name of the 'X' player: X

What type of player is X?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O

What type of player is O?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 2
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
   row 0 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 1 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 2 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
Please enter your move (Row Col):

0 0
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
   row 0 |  X  |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 1 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 2 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
   row 0 |  X  |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 1 |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
   row 2 |  O  |     |     |
         |     |     |     |
         +-----+-----+-----+
```
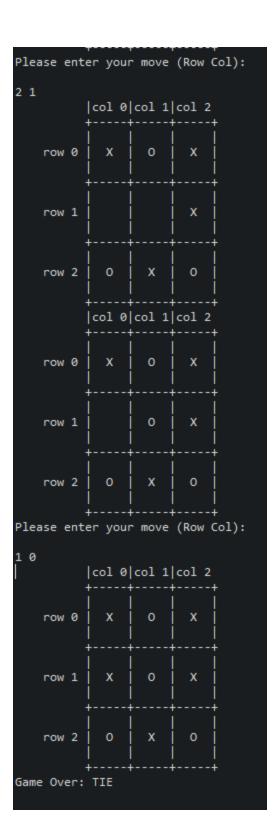
```
Please enter your move (Row Col):

0 2
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |     |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |     |     |
          |     |     |     |
          +-----+-----+-----+
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |     |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |  O  |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |     |     |
          |     |     |     |
          +-----+-----+-----+
Please enter your move (Row Col):

0 1
|
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |  X  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |  O  |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |     |     |
          |     |     |     |
          +-----+-----+-----+
Game Over: X WINS
```

Human(X) vs Blocking(O)

```
Please enter the name of the 'X' player: X

What type of player is X?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O

What type of player is O?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 3
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
  row 0  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 1  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 2  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
Please enter your move (Row Col):

0 0
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
  row 0  |  X  |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 1  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 2  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
            |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
  row 0  |  X  |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 1  |     |     |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 2  |  O  |     |     |
         |     |     |     |
         +-----+-----+-----+
```

```
Please enter your move (Row Col):

0 2
        |col 0|col 1|col 2
        +-----+-----+-----+
        |     |     |     |
  row 0 |  X  |     |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 1 |     |     |     |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 2 |  O  |     |     |
        |     |     |     |
        +-----+-----+-----+
        |col 0|col 1|col 2
        +-----+-----+-----+
        |     |     |     |
  row 0 |  X  |  O  |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 1 |     |     |     |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 2 |  O  |     |     |
        |     |     |     |
        +-----+-----+-----+
Please enter your move (Row Col):

1 2
        |col 0|col 1|col 2
        +-----+-----+-----+
        |     |     |     |
  row 0 |  X  |  O  |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 1 |     |     |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 2 |  O  |     |     |
        |     |     |     |
        +-----+-----+-----+
        |col 0|col 1|col 2
        +-----+-----+-----+
        |     |     |     |
  row 0 |  X  |  O  |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 1 |     |     |  X  |
        |     |     |     |
        +-----+-----+-----+
        |     |     |     |
  row 2 |  O  |     |  O  |
        |     |     |     |
        +-----+-----+-----+
```

```
              |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
Please enter your move (Row Col):

2 1
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |     |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |  X  |  O  |
          |     |     |     |
          +-----+-----+-----+
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |  X  |  O  |
          |     |     |     |
          +-----+-----+-----+
Please enter your move (Row Col):

1 0
|         |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |  X  |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |  X  |  O  |  X  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  O  |  X  |  O  |
          |     |     |     |
          +-----+-----+-----+
Game Over: TIE
```

Smart(X) vs Blocking(O)

```
Please enter the name of the 'X' player: X

What type of player is X?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 4

Please enter the name of the 'O' player: O

What type of player is O?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 3
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  X  |     |     |
          |     |     |     |
          +-----+-----+-----+
          |col 0|col 1|col 2
          +-----+-----+-----+
          |     |     |     |
   row 0  |     |     |     |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 1  |     |     |  O  |
          |     |     |     |
          +-----+-----+-----+
          |     |     |     |
   row 2  |  X  |     |     |
          |     |     |     |
          +-----+-----+-----+
```

```
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |     |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |  X  |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  X  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |     |     |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |  X  |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  X  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |     |     |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |  X  |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  X  |     |  X  |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |  O  |     |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |  X  |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  X  |     |  X  |
      |     |     |     |
      +-----+-----+-----+
```

```
        |col 0|col 1|col 2
       +-----+-----+-----+
       |     |     |     |
row 0  |  O  |     |  O  |
       |     |     |     |
       +-----+-----+-----+
       |     |     |     |
row 1  |     |  X  |  O  |
       |     |     |     |
       +-----+-----+-----+
       |     |     |     |
row 2  |  X  |  X  |  X  |
       |     |     |     |
       +-----+-----+-----+
Game Over: X WINS
```

Smart vs Smart

```
Please enter the name of the 'X' player: X

What type of player is X?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 4

Please enter the name of the 'O' player: O

What type of player is O?
  1: Human
  2: Random Player
  3: Blocking Player
  4: Smart Player
Please enter a number in the range 1-4: 4
           |col 0|col 1|col 2
           +-----+-----+-----+
           |     |     |     |
    row 0  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 1  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 2  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |col 0|col 1|col 2
           +-----+-----+-----+
           |     |     |     |
    row 0  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 1  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 2  |     |  X  |     |
           |     |     |     |
           +-----+-----+-----+
           |col 0|col 1|col 2
           +-----+-----+-----+
           |     |     |     |
    row 0  |  O  |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 1  |     |     |     |
           |     |     |     |
           +-----+-----+-----+
           |     |     |     |
    row 2  |     |  X  |     |
           |     |     |     |
           +-----+-----+-----+
```

```
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |  O  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |     |  X  |  X  |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |  O  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |     |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  O  |  X  |  X  |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |  O  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |  X  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  O  |  X  |  X  |
      |     |     |     |
      +-----+-----+-----+
      |col 0|col 1|col 2
      +-----+-----+-----+
      |     |     |     |
row 0 |  O  |     |  O  |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 1 |  X  |     |     |
      |     |     |     |
      +-----+-----+-----+
      |     |     |     |
row 2 |  O  |  X  |  X  |
      |     |     |     |
      +-----+-----+-----+
```

```
         |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
  row 0  |  O  |     |  O  |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 1  |  X  |  X  |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 2  |  O  |  X  |  X  |
         |     |     |     |
         +-----+-----+-----+
         |col 0|col 1|col 2
         +-----+-----+-----+
         |     |     |     |
  row 0  |  O  |  O  |  O  |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 1  |  X  |  X  |     |
         |     |     |     |
         +-----+-----+-----+
         |     |     |     |
  row 2  |  O  |  X  |  X  |
         |     |     |     |
         +-----+-----+-----+
Game Over: O WINS
```