

ENSF 409, Lab 4, Ex 3, Demonstration

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Human vs. Human

Please enter the name of the 'X' player: `X_Human_1`

What type of player is X_Human_1?

- 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_Human_2`

What type of player is O_Human_2?

- 1: Human
- 2: Random Player
- 3: Blocking Player
- 4: Smart Player

Please enter a number in the range 1-4: `1`

Referee started the game...

	col 0	col 1	col 2
row 0			
row 1			
row 2			

X_Human_1, enter the row to place 'X' mark in: `0`

X_Human_1, enter the column to place 'X' mark in: `0`

	col 0	col 1	col 2
row 0	X		
row 1			

```

row 2 |   |   |   |
+-----+
O_Human_2, enter the row to place 'O' mark in: 1
O_Human_2, enter the column to place 'O' mark in: 1

```

```

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

```

```

X_Human_1, enter the row to place 'X' mark in: 1
X_Human_1, enter the column to place 'X' mark in: 1
Please try entering a row and column again, as an invalid move was just made.
X_Human_1, enter the row to place 'X' mark in: 2
X_Human_1, enter the column to place 'X' mark in: 2

```

```

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

```

```

O_Human_2, enter the row to place 'O' mark in: 2
O_Human_2, enter the column to place 'O' mark in: 0

```

```

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

```

```

      |   |   |   |
      +---+---+---+
X_Human_1, enter the row to place 'X' mark in: 0
X_Human_1, enter the column to place 'X' mark in: 2

```

```

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

```

```

O_Human_2, enter the row to place 'O' mark in: 1
O_Human_2, enter the column to place 'O' mark in: 0

```

```

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

```

```

X_Human_1, enter the row to place 'X' mark in: 1
X_Human_1, enter the column to place 'X' mark in: 2

```

```

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

```

```

The game is now over: Player 'X' (X_Human_1) wins the game!

```

Human vs. Random

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

What type of player is X_Human?

- 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_Random`

What type of player is O_Random?

- 1: Human
- 2: Random Player
- 3: Blocking Player
- 4: Smart Player

Please enter a number in the range 1-4: `2`

Referee started the game...

	col 0	col 1	col 2
row 0			
row 1			
row 2			

X_Human, enter the row to place 'X' mark in: `1`

X_Human, enter the column to place 'X' mark in: `1`

	col 0	col 1	col 2
row 0			
row 1		X	
row 2			

col 0 col 1 col 2

row 0			0
row 1		X	
row 2			

X_Human, enter the row to place 'X' mark in: 0

X_Human, enter the column to place 'X' mark in: 0

	col 0	col 1	col 2
row 0	X		0
row 1		X	
row 2			

	col 0	col 1	col 2
row 0	X		0
row 1	0	X	
row 2			

X_Human, enter the row to place 'X' mark in: 1

X_Human, enter the column to place 'X' mark in: 2

	col 0	col 1	col 2
row 0	X		0

row 1		0		X		X	
	+	-	-	+	-	-	+
row 2							
	+	-	-	+	-	-	+

		col 0		col 1		col 2	
	+	-	-	+	-	-	+
row 0		X				0	
	+	-	-	+	-	-	+
row 1		0		X		X	
	+	-	-	+	-	-	+
row 2				0			
	+	-	-	+	-	-	+

X_Human, enter the row to place 'X' mark in: 1

X_Human, enter the column to place 'X' mark in: 2

Please try entering a row and column again, as an invalid move was just made.

X_Human, enter the row to place 'X' mark in: 2

2X_Human, enter the column to place 'X' mark in:

		col 0		col 1		col 2	
	+	-	-	+	-	-	+
row 0		X				0	
	+	-	-	+	-	-	+
row 1		0		X		X	
	+	-	-	+	-	-	+
row 2				0		X	
	+	-	-	+	-	-	+

The game is now over: Player 'X' (X_Human) wins the game!

Human vs. Blocking Player

Please enter the name of the 'X' player: **X_Human**

What type of player is X_Human?

- 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_Blocking**

What type of player is O_Blocking?

- 1: Human
- 2: Random Player
- 3: Blocking Player
- 4: Smart Player

Please enter a number in the range 1-4: **3**

Referee started the game...

	col 0	col 1	col 2
row 0			
row 1			
row 2			

X_Human, enter the row to place 'X' mark in: **1**

X_Human, enter the column to place 'X' mark in: **1**

	col 0	col 1	col 2
row 0			
row 1		X	
row 2			

col 0 col 1 col 2

row 0		0	
row 1		X	
row 2			

X_Human, enter the row to place 'X' mark in: 0

X_Human, enter the column to place 'X' mark in: 0

	col 0	col 1	col 2
row 0	X	0	
row 1		X	
row 2			

	col 0	col 1	col 2
row 0	X	0	
row 1		X	0
row 2			0

X_Human, enter the row to place 'X' mark in: 0

X_Human, enter the column to place 'X' mark in: 2

	col 0	col 1	col 2
row 0	X	0	X

row 1				X		0	
	+-----+						
row 2						0	
	+-----+						

		col 0		col 1		col 2	
	+-----+						
row 0		X		0		X	
	+-----+						
row 1		0		X		0	
	+-----+						
row 2		0				0	
	+-----+						

X_Human, enter the row to place 'X' mark in: 2
X_Human, enter the column to place 'X' mark in: 1

		col 0		col 1		col 2	
	+-----+						
row 0		X		0		X	
	+-----+						
row 1		0		X		0	
	+-----+						
row 2		0		X		0	
	+-----+						

The game is now over: The game ended in a tie.

Human vs. Smart Player

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

What type of player is X_Human?

- 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_Smart`

What type of player is O_Smart?

- 1: Human
- 2: Random Player
- 3: Blocking Player
- 4: Smart Player

Please enter a number in the range 1-4: `4`

Referee started the game...

	col 0	col 1	col 2
row 0			
row 1			
row 2			

X_Human, enter the row to place 'X' mark in: `0`

X_Human, enter the column to place 'X' mark in: `0`

	col 0	col 1	col 2
row 0	X		
row 1			
row 2			

	col 0	col 1	col 2
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row 0	X	0	
row 1			
row 2			

X_Human, enter the row to place 'X' mark in: 2

X_Human, enter the column to place 'X' mark in: 2

	col 0	col 1	col 2
row 0	X	0	
row 1			
row 2			X

	col 0	col 1	col 2
row 0	X	0	0
row 1		0	
row 2			X

X_Human, enter the row to place 'X' mark in: 2

X_Human, enter the column to place 'X' mark in: 0

	col 0	col 1	col 2
row 0	X	0	0

row 1				0			
	+-----+						
row 2		X				X	
	+-----+						

		col 0		col 1		col 2	
	+-----+						
row 0		X		0		0	
	+-----+						
row 1		0		0		0	
	+-----+						
row 2		X		0		X	
	+-----+						

The game is now over: Player '0' (O_Smart) wins the game!