

```
In [49]: runfile('C:/Users/Pradeep Kumar/Desktop/Mtech Semesters/Sem 2/1. Artificial Intelligence/Lab Assignment/2/Assignment_2/TTT_heuristic.py', wdir='C:/Users/Pradeep Kumar/Desktop/Mtech Semesters/Sem 2/1. Artificial Intelligence/Lab Assignment/2/Assignment_2')
```

Enter depth of search: 3

```
| | | | |
| | | | |
| | | | |
| | | | |
```

Player - 1

Time taken for 1 move = 0.19380450248718262 seconds  
No. of explored nodes = 3617

```
| | | | |
| | | | |
| | | | |
| | x | | |
```

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 4

```
| | | | 0 |
| | | | |
| | | | |
| | x | | |
```

Player - 1

Time taken for 1 move = 0.1978015899658203 seconds  
No. of explored nodes = 2380

```
| x | | | 0 |
| | | | |
```

		X		

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 16

	X			0	
		X		0	

Player - 1

Time taken for 1 move = 0.07560467720031738 seconds  
No. of explored nodes = 1464

	X			0	
		X	X	0	

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 13

	X			0	
	0	X	X	0	

Player - 1

Time taken for 1 move = 0.08881998062133789 seconds  
No. of explored nodes = 820

	X			0	
	X				

```
| 0 | X | X | 0 |
```

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 8

```
| X |   |   | 0 |
```

```
| X |   |   | 0 |
```

```
|   |   |   |   |
```

```
| 0 | X | X | 0 |
```

Player - 1

Time taken for 1 move = 0.019752979278564453 seconds

No. of explored nodes = 358

```
| X |   |   | 0 |
```

```
| X |   |   | 0 |
```

```
|   |   |   | X |
```

```
| 0 | X | X | 0 |
```

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 10

```
| X |   |   | 0 |
```

```
| X |   |   | 0 |
```

```
|   | 0 |   | X |
```

```
| 0 | X | X | 0 |
```

Player - 1

Time taken for 1 move = 0.008684635162353516 seconds

No. of explored nodes = 136

```
| X |   |   | 0 |
```

```
| X |   | X | 0 |
```

```
|   | 0 |   | X |
```

| 0 | X | X | 0 |

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 2

| X | 0 |   | 0 |

| X |   | X | 0 |

|   | 0 |   | X |

| 0 | X | X | 0 |

Player - 1

Time taken for 1 move = 0.004782199859619141 seconds

No. of explored nodes = 40

| X | 0 |   | 0 |

| X | X | X | 0 |

|   | 0 |   | X |

| 0 | X | X | 0 |

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 3

| X | 0 | 0 | 0 |

| X | X | X | 0 |

|   | 0 |   | X |

| 0 | X | X | 0 |

Player - 1

Time taken for 1 move = 0.0 seconds

No. of explored nodes = 4

| X | 0 | 0 | 0 |

| X | X | X | 0 |

|   | 0 | X | X |

| 0 | X | X | 0 |

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 9

	x		o		o		o	
--	---	--	---	--	---	--	---	--

	x		x		x		o	
--	---	--	---	--	---	--	---	--

	o		o		x		x	
--	---	--	---	--	---	--	---	--

	o		x		x		o	
--	---	--	---	--	---	--	---	--

Match is draw

In [50]: