

```
In [53]: 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 = 0.24503135681152344 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): 1

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

Player - 1

Time taken for 1 move = 0.18169069290161133 seconds
No. of explored nodes = 2380

```
| 0 | | | |
| | | | |
```

		X	X		

Player - 2

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

0				0	
		X	X		

Player - 1

Time taken for 1 move = 0.09160399436950684 seconds
No. of explored nodes = 1464

0				0	
		X	X		
				X	

Player - 2

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

0				0	
		X	X		
0				X	

Player - 1

Time taken for 1 move = 0.08086228370666504 seconds
No. of explored nodes = 820

0				0	
		X	X		

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

Player - 2

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

```
| 0 | 0 |   | 0 |
```

```
|   |   |   |   |
```

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

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

Player - 1

Time taken for 1 move = 0.022413015365600586 seconds

No. of explored nodes = 358

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

```
|   |   |   |   |
```

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

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

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 5

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

```
| 0 |   |   |   |
```

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

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

Player - 1

Time taken for 1 move = 0.003791332244873047 seconds

No. of explored nodes = 136

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

```
| 0 |   |   |   |
```

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

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

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 12

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

```
| 0 |   |   |   |
```

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

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

Player - 1

Time taken for 1 move = 0.004256725311279297 seconds

No. of explored nodes = 40

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

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

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

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

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 7

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

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

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

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

Player - 1

Time taken for 1 move = 0.0009992122650146484 seconds

No. of explored nodes = 4

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

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

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

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

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 6

| 0 | 0 | x | 0 |

| 0 | 0 | 0 | x |

| x | x | x | 0 |

| 0 | x | x | x |

Match is draw

In [54]: