

```
In [51]: 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 = 0.22556328773498535 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): 5

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

Player - 1

Time taken for 1 move = 0.1351490020751953 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): 9

	0		x	
	0			
			x	

Player - 1

Time taken for 1 move = 0.09288740158081055 seconds
No. of explored nodes = 1464

	x			
	0		x	
	0			
			x	

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 11

	x			
	0		x	
	0		0	
			x	

Player - 1

Time taken for 1 move = 0.08580827713012695 seconds
No. of explored nodes = 820

	x			x	
	0		x		
	0			0	

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

Player - 2

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

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

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

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

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

Player - 1

Time taken for 1 move = 0.032113075256347656 seconds

No. of explored nodes = 358

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

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

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

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

Player - 2

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

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

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

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

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

Player - 1

Time taken for 1 move = 0.011825323104858398 seconds

No. of explored nodes = 156

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

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

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

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

Player - 2

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

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

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

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

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

Player - 1

Time taken for 1 move = 0.0020227432250976562 seconds

No. of explored nodes = 40

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

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

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

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

Player - 2

You are 0: Choose blank tile from board between 1-16 (left to right and top to bottom): 14

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

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

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

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

Player - 1

Time taken for 1 move = 0.0 seconds

No. of explored nodes = 3

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

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

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

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

Player 1 wins

In [52]: