

Graph Representation:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 0 | 3 | infinity | infinity | infinity | 12 | infinity |
| 2 | 3 | 0 | 5 | infinity | infinity | infinity | 4 |
| 3 | infinity | 5 | 0 | 6 | infinity | infinity | 3 |
| 4 | infinity | infinity | 6 | 0 | 1 | infinity | infinity |
| 5 | infinity | infinity | infinity | 1 | 0 | 10 | 7 |
| 6 | 12 | infinity | infinity | infinity | 10 | 0 | 2 |
| 7 | infinity | 4 | 3 | infinity | 7 | 2 | 0 |

Path Representation:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 0 | 3 | 8 | 14 | 14 | 9 | 7 |
| 2 | 3 | 0 | 5 | 11 | 11 | 6 | 4 |
| 3 | 8 | 5 | 0 | 6 | 7 | 5 | 3 |
| 4 | 14 | 11 | 6 | 0 | 1 | 10 | 8 |
| 5 | 14 | 11 | 7 | 1 | 0 | 9 | 7 |
| 6 | 9 | 6 | 5 | 10 | 9 | 0 | 2 |
| 7 | 7 | 4 | 3 | 8 | 7 | 2 | 0 |