|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Maze** | **Size** | **DFS Number of Steps** | **DFS Time (ms)** | **BFS Number of Steps** | **BFS Time (ms)** |
| 1 | 20 x 20 | 778 | 12.0 | 22 | 9.0 |
| 2 | 20 x 20 | 30 | 9.0 | 32 | 9.0 |
| 3 | 20 x 20 | 657 | 12.0 | 103 | 10.0 |
| 4 | 20 x 20 | 29 | 9.0 | 30 | 9.0 |
| 5 | 20 x 20 | 789 | 12.0 | 10 | 9.0 |
| 6 | 20 x 50 | 1936 | 15.0 | 56 | 9.0 |
| 7 | 20 x 50 | 1966 | 16.0 | 39 | 9.0 |
| 8 | 20 x 50 | 34 | 9.0 | 35 | 9.0 |
| 9 | 20 x 50 | 1983 | 16.0 | 16 | 9.0 |
| 10 | 20 x 50 | 23 | 9.0 | 24 | 9.0 |
| 11 | 100 x 100 | 50 | 9.0 | 51 | 9.0 |
| 12 | 100 x 100 | 19974 | 62.0 | 25 | 10.0 |
| 13 | 100 x 100 | 35 | 9.0 | 36 | 9.0 |
| 14 | 100 x 100 | 19969 | 78.0 | 31 | 9.0 |
| 15 | 100 x 100 | 19976 | 84.0 | 24 | 10.0 |

# Analysis

Breadth first search is the better performing algorithm as depth first solving time and number of steps increase at a faster rate than breadth first search. On each comparison breadth first search perform less or similar steps to achieve the same outcome.