## Test Results

Each Solution at depth is for the same starting and goal state (GBFS unsolved @ depth 12)

### Nodes Expanded by Solution Depth per Search Technique

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Solution at Depth** | **Breadth First Search** | **Greedy Best-First Search using Manhattan** | **A\* Search using Misplaced Tiles** | **A\* Search using Manhattan Distance** |
| 4 | 24 | 6 | 6 | 6 |
| 6 | 100 | 14 | 14 | 14 |
| 8 | 1986 | 18 | 18 | 18 |
| 10 | 13864 | 25 | 64 | 25 |
| 12 | 53102 | 262 | 262 | 47 |

### Maximum Nodes in Search Space by Solution Depth per Search Technique

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Solution at Depth** | **Breadth First Search** | **Greedy Best-First Search using Manhattan** | **A\* Search using Misplaced Tiles** | **A\* Search using Manhattan Distance** |
| 4 | 16 | 4 | 4 | 4 |
| 6 | 65 | 9 | 9 | 9 |
| 8 | 1300 | 12 | 12 | 12 |
| 10 | 9048 | 17 | 41 | 17 |
| 12 | 34358 | 172 | 172 | 30 |