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| --- | --- | --- | --- |
| **Comparing performance of the three search algorithms for each of the test cases listed in the appendix** | | | |
| Algorithms: | Brute Force | Back-Tracking | Forward Checking with MRV |
| puzzle1.txt (Test case 1) | | | |
| Total clock time (ms) | N/A Too Long | 5.69796562195 | 11.7399692535 |
| Total search time (ms) | N/A Too Long | 5.65981864929 | 11.6810798645 |
| Nodes generated | ? | 687 | 41 |
| puzzle2.txt (Test case 2) | | | |
| Total clock time (ms) | N/A Too Long | 64.5699501038 | 20.1671123505 |
| Total search time (ms) | N/A Too Long | 64.5248889923 | 20.1210975647 |
| Nodes generated | ? | 8008 | 58 |
| puzzle3.txt (Test case 3) | | | |
| Total clock time (ms) | N/A Too Long | 117.506980896 | 62.9210472107 |
| Total search time (ms) | N/A Too Long | 117.410182953 | 62.8731250763 |
| Nodes generated | ? | 14340 | 167 |
| puzzle4.txt (Test case 4) | | | |
| Total clock time (ms) | N/A Too Long | 37.0609760284 | 33.0669879913 |
| Total search time (ms) | N/A Too Long | 37.0230674744 | 33.0278873444 |
| Nodes generated | ? | 4621 | 86 |
| puzzle5.txt (Test case 5) | | | |
| Total clock time (ms) | N/A Too Long | 20.4617977142 | 28.9080142975 |
| Total search time (ms) | N/A Too Long | 20.41888237 | 28.8689136505 |
| Nodes generated | ? | 2359 | 66 |