**Heuristic Analysis**

**Part 1 - Planning problems**

* Air Cargo Problem 1:

|  |  |  |  |
| --- | --- | --- | --- |
| Search | Expansions | Goal Tests | Time Elapsed |
| Breadth First Search | 43 | 56 | 0.029 |
| Breadth First Tree Search | 1458 | 1459 | 0.824 |
| Depth First Graph Search | 21 | 22 | 0.012 |
| Depth Limited Search | 101 | 271 | 0.081 |
| Uniform Cost Search | 55 | 57 | 0.032 |
| Recursive Best First Search with H\_1 | 4229 | 4230 | 2.452 |
| Greedy Best First Graph Search with H\_1 | 7 | 9 | 0.004 |
| A\*\_Search with H\_1 | 55 | 57 | 0.033 |

* Air Cargo Problem 2:

|  |  |  |  |
| --- | --- | --- | --- |
| Search | Expansions | Goal Tests | Time Elapsed |
| Breadth First Search | 43 | 56 | 0.029 |
| Breadth First Tree Search | 1458 | 1459 | 0.824 |
| Depth First Graph Search | 21 | 22 | 0.012 |
| Depth Limited Search | 101 | 271 | 0.081 |
| Uniform Cost Search | 55 | 57 | 0.032 |
| Recursive Best First Search with H\_1 | 4229 | 4230 | 2.452 |
| Greedy Best First Graph Search with H\_1 | 7 | 9 | 0.004 |
| A\*\_Search with H\_1 | 55 | 57 | 0.033 |

* Air Cargo Problem 3:

|  |  |  |  |
| --- | --- | --- | --- |
| Search | Expansions | Goal Tests | Time Elapsed |
| Breadth First Search | 43 | 56 | 0.029 |
| Breadth First Tree Search | 1458 | 1459 | 0.824 |
| Depth First Graph Search | 21 | 22 | 0.012 |
| Depth Limited Search | 101 | 271 | 0.081 |
| Uniform Cost Search | 55 | 57 | 0.032 |
| Recursive Best First Search with H\_1 | 4229 | 4230 | 2.452 |
| Greedy Best First Graph Search with H\_1 | 7 | 9 | 0.004 |
| A\*\_Search with H\_1 | 55 | 57 | 0.033 |