**Solving *Problem Name* by Searching**

1. **Team Members and Time Report:**

|  |  |  |  |
| --- | --- | --- | --- |
| **First Name** | **Last Name** | **Total Time** | **Contributions** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **Problem Description:**

*[Write a paragraph to describe the problem.]*

1. **Problem Modeling:**

*[Model the problem into state-space.]*

1. **Implementation**

*[Describe the language you use to implement your solutions. Why do you choose this language? What data structure do you use to implement the state space?]*

1. **Uninformed Search Algorithm: *Name of the algorithm***
   1. **Algorithm Description**
   2. **Algorithm (pseudo code)**
   3. **Algorithm Properties**
   4. **Results**

*[List sample inputs and results from your program.]*

1. **Heuristic Search Algorithm 1: *Name of the algorithm***
   1. **Heuristic Description**
   2. **Algorithm (pseudo code)**
   3. **Algorithm Properties**
   4. **Results**

*[List sample inputs and results from your program.]*

1. **Heuristic Search Algorithm 2: *Name of the algorithm***
   1. **Heuristic Description**
   2. **Algorithm (pseudo code)**
   3. **Algorithm Properties**
   4. **Results**

*[List sample inputs and results from your program.]*

1. **Empirical Analysis**

*[Be creative here. Compare your experiment results in different ways. Use charts or tables to demonstrate the comparison.]*

1. **Conclusion**

*[What have you learned from this project? Did you encounter any issues? How did you solve them? What related topics would you like to explore more in the future?]*