David Smith

8 Puzzle AI Using A\*

**How to compile/run:**

Can be compiled using eclipse or in cmd.

**If using cmd:**

1. Use cd to direct toward the project’s bin directory
2. Use javac to compline the Main.java file
3. Run the program with java Main

When running the program you will be prompted to select a start state and the goal state, both within .txt files.

**Description of Heuristics/Architecture:**

Note: IN ITS CURRENT STATE THIS PROGRAM WILL NOT WORK

I tried many different architectures with this project. All have failed, though I feel like I’m close.

What is currently implemented is the Priority Queue ArrayList class found in Java with the comparator interface. This makes it easy to pull the state with the lowest from the queue.

As for heuristics I used the standard Hamming and Manhattan Distance.

Works Cited

While I looked to many places to get started, these two pages are what I looked at most.

https://www.cs.princeton.edu/courses/archive/fall12/cos226/assignments/8puzzle.html https://codereview.stackexchange.com/questions/72047/8-puzzle-solver-a-search