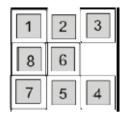
Comp 408 Artificial Intelligence

Consider the following 8-puzzel states





Given a puzzle state like the one on the left, where the numbers are in the wrong places, we want to search for a series of moves which ends in the solution above, on the right.

Consider the Manhattan heuristic function, h, discussed in class.

- i. Explain why this h is admissible.
- ii. What is the value of h for the above board state?
- iii. Solve the problem using A*.