CS3243 Tutorial 1

1a.

1. Fully observable
2. Deterministic
3. Sequential
4. Discrete
5. Single
6. Static

1b.

The state representation is a hashtable with keys that represent the cartesian coordinates of filled squares, and the keys map to values that represent the number on that square.

The initial state is a hashtable with 81 key-value pairs where there are no repeating values for square coordinates in the same row, column, diagonal or 9x9 box. The goal state is a hash table with 81-n number of key-value pairs where n is the number of empty blank squares.

The actions are:

1. Move right
2. Remove