

**Assignment 2**

(By meeting at 4:00pm on 9/25/Saturday)

Your name:	Score:
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*No submission is required, but **be ready to answer all questions related with the following topics!!!***

First walk through two presentation files at

[http://cs.salemstate.edu/~b\\_yi/2010Fall/CSC340/resources/index.html](http://cs.salemstate.edu/~b_yi/2010Fall/CSC340/resources/index.html)

- Cawsey's Chapter 2
- 8 Puzzle Game

You may need to use some other sources (online search, and textbook—if you have already got one, the textbook PPT files posted on the web...). Make sure that you fully understand the following topics:

- Topics found in “Cawsey’s Chapter 2”:
  - Semantic networks and frames
  - Predicate Logic (read carefully!!)
  - Rule-based system: forward/backward chaining (read carefully!!)
  - (you may check chapter 3 of the textbook and/or its slides)
- Topics related with 8 Puzzle Game
  - Search, Search Space, Search Tree
  - Breadth-first search
  - Depth-first search
  - Heuristics and how to use Heuristics on *8 Puzzle Game*
  - Search Trees for *Missionaries and Cannibals* and *The Towers of Hanoi*
  - (you may check chapter 4 of the textbook and/or its slides)

(These topics are general topics of AI—if you don’t have textbooks by now, you will be able to find the solutions from the postings on the course website and online searches with the topics in questions. From next assignments---you will have to use textbook---Purchase textbook right now!!!)