CS 160
CS Orientation

Problem Solving/Algorithms

Odds and Ends

- Assignment #3 posted

- Demo Assignment #2

- Great Python Book:

  - http://introcs.cs.princeton.edu/python/home

- Video: What are algorithms?

Assignment #3

- What am I asking you to do?

Problem Solving in Everyday Life

1. Identify the problem.
2. Understand the problem.
3. Identify alternative ways to solve problem.
4. Select best alternative.
5. List solution steps for alternative chosen.
6. Evaluate solution.

Difficulties with Problem Solving

- Lack of problem solving experience
- Inadequate solution steps
- Incorrect problem definition
- Alternatives chosen incorrectly
- Invalid logic
- Incorrect solution evaluation

Let's write the directions to start a car

Exercise #2

- Get into groups of 4-5, and everyone write your name on one piece of paper.

- Write the steps for tying your shoes.

- Exchange your solution with another group to see if they can tie a shoe with your instructions.

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