

CS 2502/486 2005 Assignment 4

Due: December 7+

This assignment involves the simple dynamic world of “pots of water” as described on page 301 of the book. In the first part, we consider how to formalize the actions in this world:

1. Exercises 1–4 of Chapter 14.

In the second part of the assignment, we continue with planning in this pots world:

2. Exercises 1–7 of Chapter 15.

Note: You may use arithmetic freely in any of these questions. In Exercise 4 of Chapter 15, you may also use a dummy precondition that is always satisfied as a way of obtaining a value for its free variables. In Exercise 7, before turning to Golog, you should describe a heuristic that could be used to eliminate certain actions from consideration during planning in the pots world without affecting the final result.