

91.420/91.543, Artificial Intelligence  
Spring 2002  
Prof. Yanco

### Assignment 4

Out: Tuesday, 26 February 2002

Due: Tuesday, 5 March 2002

*Reminder:* The midterm will be given in class on Tuesday, 12 March 2002. The exam will cover material from lectures up to and including Tuesday, 5 March 2002.

*Botball/Botfest:* On Saturday, 9 March 2002, the Botball tournament and Botfest exhibition will be held in the Costello Gym.

- If you are planning to exhibit a robot at Botfest, please turn in the registration form by Tuesday, 5 March.
- Volunteers are needed to help run the event. Talk to me if you'd like to volunteer. You can volunteer for part or all of the day.
- The events are free and open to the public. Encourage your friends and family to attend.
  - Botball tournament: Seeding rounds 10:00 to 12:00, Double elimination tournament 1:00 to 4:00.
  - Botfest exhibition: 11:00 to 1:00.

**Problem 1:** Exercise 5.1 on p. 145 of Russell and Norvig.

**Problem 2:** Exercise 5.8 on p. 147 of Russell and Norvig.

**Problem 3:** Exercise 5.10 on p. 147 of Russell and Norvig.

**Problem 4:** Exercise 5.16 on p. 148 of Russell and Norvig.

**Problem 5:** Exercise 5.17 on p. 148 of Russell and Norvig.

**Problem 6 (91.543 only):** Exercise 5.4 on p. 146 of Russell and Norvig.

**Problem 7 (91.543 only):** Exercise 5.7 on p. 147 of Russell and Norvig.

**Problem 8 (91.543 only):** Exercise 5.13 on p. 148 of Russell and Norvig.