

91.420, Artificial Intelligence
Spring 2002
Prof. Yanco

Assignment 1

Out: Thursday, 31 January 2002

Due: Thursday, 7 February 2002

Problem 1

Read the article “Can Machines Think?” from the Summer 1992 issue of *AI Magazine*, which describes the first Loebner Prize Competition. Write a brief paragraph describing the state-of-the-art as represented by the winning transcript. Do you think it sounds sufficiently human-like?

Find the Loebner Prize web site and read the transcripts from 2001. How much has changed in 10 years? Do you think that a computer will be able to really fool a human in the near future?

Problem 2 Exercise 1.3 on p. 29 of Russell and Norvig.

Problem 3 Exercise 1.8 on p. 30 of Russell and Norvig.

Problem 4 Exercise 1.9 on p. 30 of Russell and Norvig.

Problem 5 Exercise 1.10 on p. 30 of Russell and Norvig.

Problem 6 Exercise 2.1 on p. 50 of Russell and Norvig.

Problem 7 Exercise 2.2 on p. 50 of Russell and Norvig.

Problem 8 Exercise 2.3 on p. 50 of Russell and Norvig.

Problem 9 Exercise 2.4 on p. 50 of Russell and Norvig.