

CSc 74010 Fall 2011, Homework 10

1. Describe how you could program an agent to use active reinforcement learning to learn how to act in the environment in the figure below.

Assume an underlying transition model like that from Lecture 8, Slide 8 (though the agent will have to learn this).

Be sure to describe how the agent will learn the transition model and the utilities of all the states. In particular, explain how the agent will avoid learning a sub-optimal policy.

Note, I'm not asking you to actually program an agent to use reinforcement learning in this case, just to explain the methods and how they would be applied.

