Lab 7 CS114 Spring 2018 Markov Chains and Hidden Markov Models

1. Markov Chain

Compute the probability that the third day is a cold day.

2. Hidden Markov Model

 $\begin{array}{ccc} & Cold & Hot \\ \pi = & 0.5 & 0.5 \end{array}$

- a. Suppose that the observation sequence is (Good, Good, Bad). Use the forward algorithm to compute the likelihood P(O).
- b. Compute the probability that the third day is a cold day.