

Homework 2

Due: Th, Oct 1st 2008, 1:00pm

Please follow these guidelines while writing up your CS 155 homeworks. A major goal of this class is to instruct you how to mathematically analyze probabilistic processes and events. Hence make sure that your proofs are rigorous, insuring that every step is adequately justified. Attempt to keep your proofs as simple and as concise as possible, keeping in mind that you will potentially have to examine multiple proof strategies in order to achieve this. Make sure to **CLEARLY STATE YOUR ASSUMPTIONS** at the beginning of any problem for which this is necessary. As we are doing probabilistic analysis, we shall require that you clearly define the probability space over which you are working with and identify the events within it that you will analyse. You are allowed to collaborate with other students on these problems. But, the write ups should be written by yourself without help from others. If you have any questions regarding how these guidelines apply to a particular problem or what they mean in general please post on the newsgroup or email the TAs.

Important Write up each homework problem on a separate sheet and place your name and login on every sheet.

Do problems 2.17, 2.23, 2.28 from the textbook.