

CSCI 283 and CSCI 172- Graduate and Undergraduate Computer Security - Fall 2008
George Washington University

Homework 1

due 30 September, 6 pm.

100 points

Policy on collaboration: All examinations, papers, and other graded work products and assignments are to be completed in conformance with The George Washington University Code of Academic Integrity. You may discuss HWs among yourselves, and work on them in groups. However, each student is expected to write his or her own HW out independently; you may not copy one another's assignments, even in part. You may not collaborate with others on the test and final.

You are expected to cite all your sources in any written work that is not closed book: papers, books, web sites, discussions with others - faculty, friends, students. For example, if, in a group, one student has a major idea that leads to a solution to a HW problem, all other students in the group should cite this student.

You may not refer to solutions to previous years' problem sets, or ask for help students from previous years, except the TA.

Any violations will be treated as violations of the Code of Academic Integrity.

PLEASE submit all HW on Blackboard only. Name your files:
CS283_HW1_LASTNAME_FIRSTNAME.doc or .pdf or
CS172_HW1_LASTNAME_FIRSTNAME.doc or .pdf

You are to design an e-commerce website. Answer questions 1-3 in less than one page; you may use upto 2 pages for question 4.

1. (10 points) Describe the goals of your system. What do you intend to do? Briefly, how will you achieve your goals?
2. (25 points) Describe anticipated threats to your system.
3. (25 points) Describe the security policy of your system, in order to protect against the threats described in question 2.
4. (40 points) How will you use cryptography to implement the security policy?