Lab 0: Moodle and Prereq-Check

Due: Jan. 11 at 11:55pm

Schedule: This week only, you do not need to attend the specific lab section that you enrolled in. This week's lab assignment requires only a browser. Instructors will be in the lab (Baskin 109) on Thursday Jan. 8 from 10am to 12pm and on Friday Jan. 9 from 1pm to 3pm to answer questions. Students may drop in to the lab at any of these times or may work on the lab assignment on their own. The lab assignment must be completed by Sunday Jan. 11 at 11:55pm.

This class is called "Introduction to Programming (accelerated)." It covers programming concepts from the beginning, but the early basic material is covered very rapidly, more like a review. Some prior programming experience is strongly recommended for this class. If you cannot complete the two short programming exercises below, you are advised to take the two quarter sequence CMPS5J-11 instead, which covers the same material and meets the same requirements. If you are not planning an SoE major then CMPS5P is a suitable introductory programming class.

For the problems in this assignment, you can use any high-level programming language such as Java, C, C++, Python, Perl, etc. Please indicate in a comment what programming language you are using. The programs will count as part of your lab grade in CMPS 12L but they will not be graded rigorously. Any serious attempt to submit the required programs will receive full credit. The main purpose of this exercise is a self-check for you to decide whether you belong in this class.

Program PR1: Write a program that prints out the first 10 perfect squares (i.e. 1, 4, 9, 16, ..., 100), one per line. Use the looping facility of your chosen language—do not just enumerate the perfect squares in your code.

Program PR2: Write a program that reads in two numbers and then prints out the larger of the two.

Lab Instructions:

1. You should do this lab individually. We will use pair programming for some future homework assignments in CMPS 12A.
2. Using a browser, go to http://moodle.soe.ucsc.edu. This is the server website for the Moodle course management system at the Jack Baskin School of Engineering.
3. Enroll in both CMPS 12A (Winter 2009) and CMPS 12L (Winter 2009). You will need to enroll in these courses separately. To enroll in a course, click on the course name under "Available Courses." On your first visit to Moodle, you will need to establish a userid and password. Fill in the form provided, including your UCSC email address. Moodle will require you to respond to an email at this address before you can use your Moodle userid to enroll in a course. The enrollment process also requires an enrollment key that will be distributed in the first CMPS 12A class session.

4. Enter the CMPS 12A and CMPS 12L courses and familiarize yourself with the Moodle system. Notice that two forums are shown near the top center of the window:
    - "News Forum" contains news and announcements of general interest. Everyone is automatically subscribed to receive email from this forum and is responsible for monitoring its content.
    - "Questions and Discussion" can be used by anyone to post questions and comments on the course content. Subscription to this forum is optional (when viewing the forum, click in the upper right corner to subscribe.)
5. In the "Administration" block on the left side of the Moodle window, click on "Profile", then on the "Edit Profile" tab. Make sure your profile is filled out correctly. Using the form provided, upload a photo of yourself to help the instructors recognize you. Do this for both CMPS 12A and CMPS 12L.
6. Go to the main course page for CMPS 12L and look at the summary of activities for the week of 5 January through 11 January. Click "Instructions" to see a copy of these instructions.
7. Write the prereq-check programs PR1 and PR2 described above, using your choice of a high-level programming language. These programs should represent your individual work.
8. Click "Prereq Check Programs" in the week of 5 Jan – 11 Jan, and follow the instructions to submit the program files for PR1 and PR2. This is the procedure that will be used to submit all your homework assignments and lab exercises. When you have uploaded both program files, click "Send for marking" to finalize your submission. You must finalize your submission before the deadline of January 11 at 11:55pm.
9. Try to find a Pair Programming partner to work with you on future homework problems. (See "Pair Programming Guidelines" for CMPS 12A in Moodle.) Choose a partner who is in your same lab section.