H15: Due Monday, 02.09 in Lecture

Threads (HFJ Ch 15, sections on threads)
Assigned: Thu 01.29  Total Points: 50

MAY ONLY BE TURNED IN IN THE LECTURE/LAB LISTED ABOVE AS THE DUE DATE,
or offered in person, for in person grading, during instructor or TAs office hours.

(1) (10 pts) Fill in the information below. Also, fill in the A-Z header by

- coloring in the first letter of your first and last name (as it appears in Gauchospace),
- writing either 4, 5, or 6 to indicate your discussion section (lab) meeting time
- writing your first and last initial in large capital letters.

All of this helps us to manage the avalanche of paper that results from the daily homework.

<table>
<thead>
<tr>
<th>First name</th>
<th>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last name</td>
<td>A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</td>
</tr>
</tbody>
</table>

name: __________________________

umail address: __________________________

@umail.ucsb.edu

If you collaborated with AT MOST one other person on this homework, write his/her name below. She/he should also have your name on his/her paper.

Reading Assignment:

- HFJ:Chapter_15, starting on p. 471 Networking and Threads: Make a Connection
- For this homework, focus on the part of the chapter about threads. (A previous homework covered the part about networking)
- If there are reading notes on the wiki, consult those too—sometimes they contain helpful hints.

(2) What does it mean for a thread to be:

(a) (4 pts) new

(b) (4 pts) runnable

(c) (4 pts) running

(d) (4 pts) blocked
(3) (3 pts) When you create a new thread which of these four states above does it go into? (circle one)
   new  runnable  running  blocked

(4) (3 pts) When you call the .start() method of a thread, which of the four states above does it go into? (circle one)
   new  runnable  running  blocked

(5) (4 pts) What puts a thread into the new state?

(6) (4 pts) What puts a thread into the runnable state?

(7) (4 pts) What puts a thread into the running state?

(8) Give two examples of events that can move a thread into a blocked state.
   (a) (3 pts)

   (b) (3 pts)