Operating Systems Course	**Deadline**: March 11, 2008
Computer Engineering Department Iran University of Science and Technology Tehran, IRAN	Homework 1 **Instructor**: Hadi Salimi

1. The client-server model is popular in distributed systems. Can it also be used in a single-computer system?
2. Examine the list of system calls in Fig. 1-9. Which call do you think is likely to execute most quickly. Explain your answer.
3. List some differences between personal computer operating systems and mainframe operating systems.
4. What's the main characteristic of the following operating systems?

   - Batch Operating Systems
   - Time-Sharing Operating Systems
   - Network Operating Systems
   - Interactive Operating Systems
   - Real-Time Operating Systems

5. See the "Comparison of Operating Systems" page on Wikipedia at the following address: http://en.wikipedia.org/wiki/Comparison_of_operating_systems and answer the following questions:

   - What kernel types have been used in Linux and MINIX?
   - Which operating systems support the POSIX standard?
   - What's a hybrid kernel?