

Lecture Review 1

Introduction to Operating Systems

Attempt the following questions before you attend tutorial.

1. From the user's point of view, what role does the operating system play in the overall functioning of the computer?
2. List any 3 components of the system software of a computer system.
3. Is it possible for a person to buy a computer and use it without an operating system? Why?
4. Identify which of the following are examples of space-multiplexed sharing, and which are time-multiplexed sharing. If there is a sense that it could be either strategy, explain.
 - a. The land in a residential zone
 - b. A personal computer
 - c. A whiteboard in a classroom
 - d. A bench seat on a bus
 - e. A single-user file in the computer
 - f. A printer on a timesharing system
5. Discuss some factors that must be considered in determining the maximum number of multiprogrammed processes for a particular system. You may assume a batch system with the same number of processes as jobs.
6. When is batch processing the preferred strategy for work to be done by the computer? When is timesharing the preferred strategy?