CS 162 Fall 2003
Discussion Section Quiz 3
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1. Compare multiprogramming with fixed memory partitions (MFT) with variable size memory partitions (MVT). What are the advantages and disadvantages of each scheme?

2. What kind of inter-process protection does Segmentation provide? Is it possible for one process to read/modify the segments of another process without permission? Why/why not?

3. Assuming that each process maintains its own address space, what does adding segmentation/paging to a multi-programmed system add to context switches?

4. Say you have a segment-based memory system, and the current process performs a 'new' operation that requires its stack segment to grow. What are the possible sequences of events that could happen before the 'new' call returns?

5. Say you have a segment-based memory system, and the current process performs a 'read' operation from a segment that is not in memory. Starting immediately after the 'read' command, describe what happens before the 'read' call can return with the data.

6. What are some advantages and disadvantages of paging vs. segmenting?