

CS 162 Fall 2003
Discussion Section Quiz 4
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1. What controls whether or not a computer begins to thrash? How can we 'solve' thrashing?

2. What is a working set? How would knowing the working set be useful?

3. Page Replacement: Consider a demand paging system with four pages of physical memory that executes the following reference stream.

1; 2; 3; 4; 1; 2; 3; 5; 1; 2; 3; 6

a) Assuming that memory starts empty and the system uses a FIFO page replacement strategy, determine the number and type of page faults that will occur and the final contents of memory.

b) Determine the number and type of page faults that will occur and the final contents of memory, assuming the system uses the LRU page replacement strategy.

4. What is an inode/File Descriptor? What do they store about files? Where would be the most efficient place to put them on a disk?

5. Why is multi-level indexed file block allocation efficient for small files?