CS162, Spring 2004
Section 10 Quiz 1
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Directions: Complete the following questions as best you can. You're encouraged to discuss these questions with the people around you. This quiz IS NOT GRADED. It's only intended to help you understand the material.

1. Consider a demand paging system with four pages of physical memory that executes the following reference stream.

8; 8; 4; 6; 7; 5; 8; 7; 6; 5; 4; 8

a) Assuming that memory starts empty and the system uses a FIFO page replacement strategy, how many page faults will occur and which pages are in memory at the end of the reference stream?

b) Determine the number of page faults and the final contents of memory assuming the system uses the LRU page replacement strategy.

c) Compare the cost of using the FIFO and LRU page replacement strategies for the reference stream above. What is you intuition about how the schemes should perform? Do the results match your intuition? Why or why not?