Assignment 4
CSC 4320/6320 Operating Systems

Due: a printed hardcopy on Thursday 4/15/2010 (at class time)

Note: Please type in the solution clearly, then print it out.
A hand-written submission is not accepted.

Goal: Learn how to solve new problems using the new knowledge independently

1. (100 points) (CSc 4320, Undergraduate Students):
The page-reference string is
1,2,4,2,1,5,3,6,7,2,3,7,6,4,3,2,1,7,6,3,7,6,5

How many page faults would occur for LRU, FIFO and Optimal replacement algorithms if there are 4 frames? Initially, all frames are empty.

2. (100 points) (CSc 6320, Graduate Students):
The page-reference string is
7,4,3,5,1,2,4,2,1,5,3,6,7,2,3,7,6,4,3,2,1,7,6,3,7,1

Please design your new algorithm.
How many page faults would occur for your new algorithm, LRU and Optimal replacement algorithms if there are 5 frames? Initially, all frames are empty.