CSCE311 Spring, 2017 Homework Due: 04/13/17 1. Consider a reference string: 4 2 3 1 4 2 3 4 5 5 6 5 4 3 3 1 1 2 7 5 1 3 6 4 2 5 There are a total of 4 page frames available. a. Construct the page replacement table for FIFO algorithm and record how many page faults. Fill in the page table after each reference. 5 4 3 F F FFF b. Construct the page replacement table for LRU algorithm and record how many page faults. Fill in the page table after each reference. F c. Construct the page replacement table for 2<sup>nd</sup> chance algorithm and record how many page faults. Fill the page table after each reference. 2 3 1 4 2 3 4 5 5 6 5 4 3 3 1 1 2 7 5 1 3 6 4 2 5

F F F

d. Construct the page replacement table for MFU algorithm and record how many page faults. Show the page table after each reference.

5 6 5 4 3 3 1 1 2

5 1

3 6

F=17