Date: 23/11/21

Page Replacement Algorithm (FIFO, Optimal and LRU)

Write a C Program to Implement Page Replacement Algorithm (FIFO, Optimal, and LRU) and determine their number of page fault.

Your Program can be menu-driven program

1. Enter data(length of page reference sequence, page reference sequence and no of frames)

2.FIFO

3.Optimal

4.LRU

5.Exit

Example

Consider the following page reference string:

1, 2, 3, 4, 2, 1, 4,2,5, 6, 2, 1, 6,5, 2, 3, 7, 5, 4,2, 6, 3, 2, 1, 2, 3, 6,4,2,5.

How many page faults would occur for the following replacement algorithms, assuming one, two, three, four, five, six, and seven frames? Remember that all frames are initially empty, so your first unique pages will cost one fault each.

• LRU replacement

• FIFO replacement

• Optimal replacement