Experiment 4

Deadline: 2024/5/19 23:59

- Write a program that implements the FIFO, OPT, LRU, and CLOCK page replacement algorithms presented in Chapter 9. First, generate a random page-reference string where page numbers range from 0 to 9. Apply the random page-reference string to each algorithm, and record the number of page faults incurred by each algorithm. Implement the replacement algorithms so that the number of page frames can vary from 1 to 7. Assume that demand paging is used.

Notes:

(1) Please submit all your source codes.

(2) Please submit your report, showing your experimental procedures and results. Anything else that you would like to report correlated to this project is also welcomed.

(3) You may refer to any other materials besides the textbook for completing the tasks, and please cite them properly in your report.