

Experiment 4

Deadline: 2021/12/28 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.