9.26\*: Write a program that implements the FIFO, LRU, and optimal page-replacement algorithms presented in this chapter. 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 algorithm so that the number of page frames can vary from 1 to 7. Assume that demand paging is used.

