

# General

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Projects and its respective folders are listed below. Detailed information about each project can be found in their respective folders.

## Problem 10.44

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The task requires implementing three page replacement algorithms: FIFO (First-In-First-Out), LRU (Least Recently Used), and Optimal (OPT). You need to generate a random page-reference string and then apply each algorithm to this string, recording the number of page faults.

### Solution

folder: [page\\_replacement](#)

## Problem 11.27

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The task requires implementing three disk-scheduling algorithms: FCFS (First-Come, First-Served), SCAN, and C-SCAN. You need to generate a random series of 1,000 cylinder requests and service them according to each algorithm, then report the total amount of head movement required by each algorithm.

### Solution

folder: [disk\\_scheduling](#)