

Assignment-3

Operating System (CS341)

Department of CSE, IIT Patna

(Read all the instructions carefully and adhere to them.)

Date: 12-April-2021

Deadline: - 17-April-2021

Instructions:

1. Marking will be based on the correctness and soundness of the outputs.
2. Marks will be deducted in case of plagiarism.
4. You should zip all the required files and name the zip file as: roll_no.zip , eg. 1711cs01.zip.
5. Upload your assignment (the zip file) in the following link:
<https://www.dropbox.com/request/wopTAdvseJl8gyHuAhyP>

For any queries regarding this assignment contact:

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Question 1: Consider a disk with 200 tracks and the queue has random requests from different processes in the order: 55, 58, 39, 18, 90, 160, 150, 38, 184
Initially arm is at 100. Find the Average Seek length using FIFO, SSTF, SCAN and C-SCAN algorithms.

Question 2: Consider a disk queue with requests for I/O to blocks on cylinders 98, 183, 41, 122, 14, 124, 65, 67. The head is initially at cylinder number 53. The cylinders are numbered from 0 to 199. The total head movement (in number of cylinders) incurred while servicing these requests with LOOK, C-LOOK, SCAN, and C-SCAN.