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SE-Comps B/Batch C

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OS Experiment 10: Disk scheduling

(All source code files are submitted on moodle)

Problem statement: Write a program to simulate disk scheduling algorithms a) FCFS b) SCAN c) C-SCAN

Files used: disk_scheduling.c

Output:

```
Command Prompt
Microsoft Windows [Version 10.0.22631.3447]
(c) Microsoft Corporation. All rights reserved.
C:\Users\shubh>cd "OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology"
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology>cd OS
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>gcc -o ds disk_scheduling.c
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>.\ds
Enter number of cylinders on disk : 200
Enter initial location of disk arm : 50
Enter number of disk access requests: 7
Enter sequence of cylinder numbers of disk access requests: 82 170 43 140 24 16 190
Using FCFS :
The order in which the disk requests are serviced are :
82 ,170 ,43 ,140 ,24 ,16 ,190
Total head movement : 642
The order in which the disk requests are serviced are : 82 ,140 ,170 ,190 ,43 ,24 ,16
Total head movement : 332
Using C-SCAN :
The order in which the disk requests are serviced are : 82 ,140 ,170 ,190 ,16 ,24 ,43
Total head movement : 391
C:\Users\shubh\OneDrive - Bharatiya Vidya Bhavans Sardar Patel Institute Of Technology\OS>
```