SPOS PBL.

Page No.

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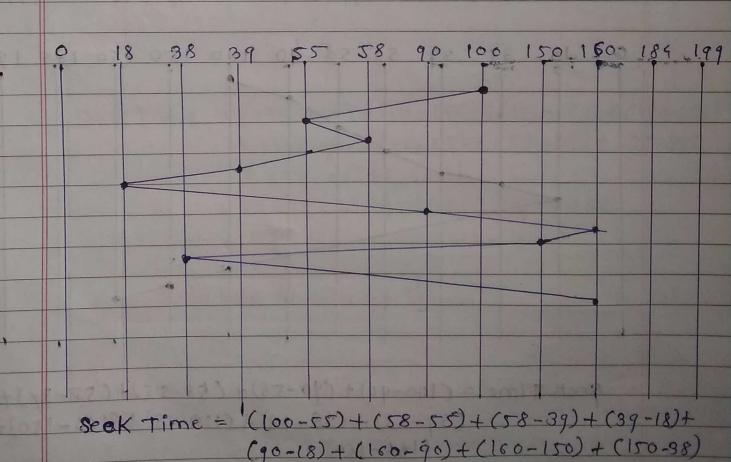
PBL Statement 4:

Consider the disk accesse requests given as 55. 58, 39, 18, 90, 160, 150, 38, 184, where starting read position is 100. Calculate average seek time using FCFS, SSTF, SCAN & e-SCAN disk scheduling policies & show which policy performs settles. For FCFS -

Given - head position = 100

Request (55, 58, 39, 18, 90, 160, 150, 38, 184)

Queues (0, 55, 58, 39, 18, 90, 160, 150, 38, 184, 199)



+ C160-38)

=45+3+19+21+72+70+10+112+446

FCFS Scale Time = 498

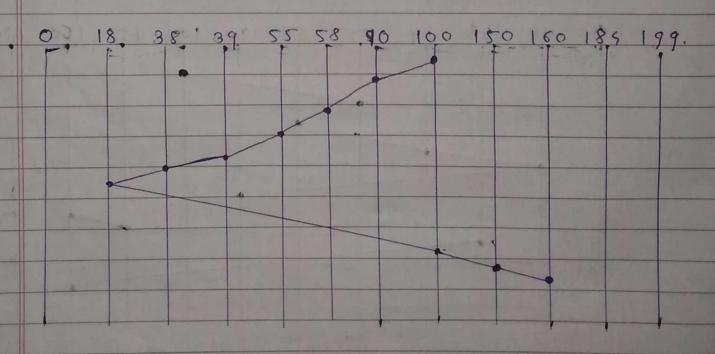
Hence, Average seek time Using FCFS is.

Avg. seektime (FCFS) = 55.3.

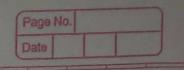
For SSTF -

2)

head position =100 Request (55,58,39,18,90,160,150,38,184) Queues (0,55,58,39,18,90,160,150,38,184,199)



Seek Time = (100-90) + (90-58) + (58-55) + (55-39) + (39-38) + (38-18) + (150-18) + (160-150) + (184-160)



= 10+32+3+16+1+20+132+10+24

Avg. Seek Time = 27.5

3)

FOR SCAN -3

0 18 38 39 55 58 90 100 150 160 185 199.

Seek Time = (150-100)+160-150)+(184-160)+(199-184) + (199-90)+(90-58)+(58-55)+(55-39) + (39-38)+(38-18)

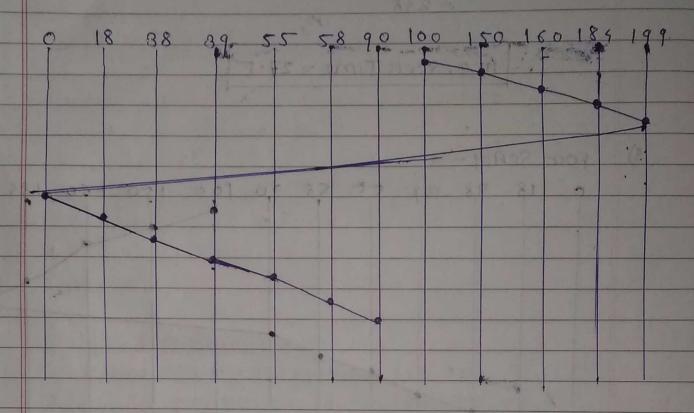
50+10+24+94+32+3+16+1+20

€ 280.

: Avg seek time = 27.8

4)

FOR CSCAN ->



Seek Time = (150-100) + (160-150) + (184-160) + (199-184) + (199-0) + (18-0) + (38-18)+ (39-38) + (55-39) + (58-55) + (90-58)

> = 389 = 389

· Aug Seek time = 35.6

Conclusion - Hence, on all Aug seek time, SSTF required min average seek time is 27.5