

Assignment No: 8

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Roll No: 89 (cs-B)

PRN: 12320120

Disk scheduling:

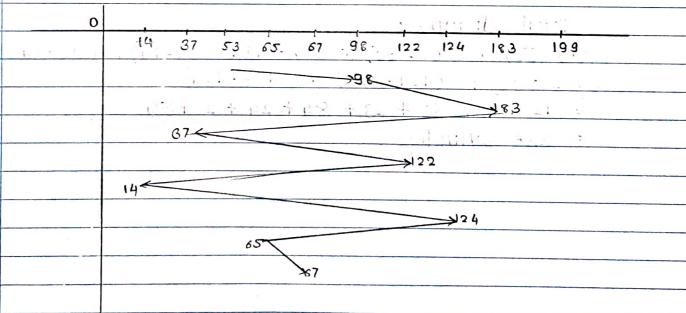
Consider the order of request for cylinder access of disk is - 98, 183, 37, 122, 14, 124, 65, 67, and current position of Readwrite head is: 53.

find the total head movements to access the data on the cylinder using following algorithms:

1) FCFS

- 2) SSTF
- 3) SCAN
- 4) (-ScAN.

4) FCFs:



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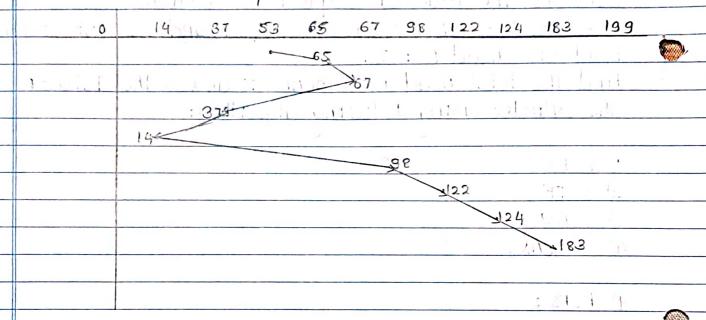


Total distance: (98-53) + (183+98) + (183-37) + (122-37) + (122-14) + (124-14) + (124-65) + (67-65)

7, 11, 111, 1, 1, 1, 1

- = 45+85+ 146+85+ 108+ 110+59+2
 - = 640 cylinders.

a) SSTF:



Total distance:

(65-53) + (67-65) + (67-37) + (37-14) + (98-14) + (122-98) + (124-122) + (183-124)

- = 12 + 2 + 30 + 23 + 84 + 24 + 2 + 59
- = 236 Cylinders.



									/	1	Aightaves	;;;;,V _I	
	3) Sca	N:											
	0	14	37	53	65	67	98	122	124	183	199		
				-	×62								
-		767											
		738											
								2122					
(C)									<u>يا24</u>				
										718	3		
												199	
			372-										
		141									•		
	To	stal d	istan	~o ·		-							
	(65-53)+(67-65)+(98-67)+(122-98)+(124-122)+												
	(183 -	124) +	(18	19 - 19	33) +	(1	99 -	37) -	- (3	7 - 14)	22)	
O					_					,			
	2	12 + 2	+ 31	+ 24	+ 2	+ 59	1 + 1	6+1	62 + 2	2.3			
	= 12 + 2 + 31 + 24 + 2 + 59 + 16 + 162 + 23 $= 331$												
			_										
	4) C-	- SCAN											
	0.1	1 1 10-	•										
	Total distance:												
	(65-53)+ (67-65)+ (98-67)+ (122-98)+ (124-122) + (183-124)+ (199-183)+ (14-0)+ (37-14)												
	7 (18.	3 - 124)	T (1	99 - 18	3) +	(14-	0) +	(37)	- 14)				
	= 12 + 2 + 31 + 24 + 2 + 59 + 16 + 14 + 23 $= 183 Cylinders.$												
		1 00	-7 1111C										

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