LAB 12

Write a C program to simulate disk scheduling algorithms a) FCFS

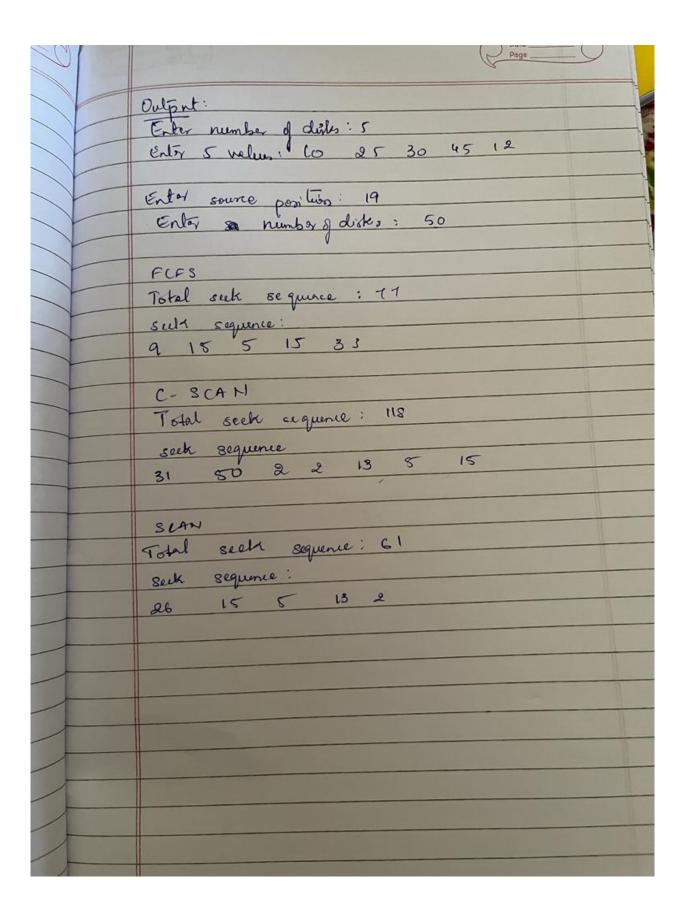
b) SCAN

	Page Date
	letrite a C program to stimulate disking scheduling algorithms: a) F(F) b) S(AH)
-	algorithms: " (and to lead the last and the
	a) FCFS (FD) (07:(1)) 1/2
	6) SCAN (CO TIME COME CO) COLOR (TI)
	d) C-SLAN
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• 1	Hindule Kstdio.uy (O) meet home
	of Include Colors &
	ex dish; " of many of many
	et dists; and many
	round quicksoft (int numbers (25), ist first, int (est)
	int 1, 1, plust, lamp (Rint < lad)
	int 1, 1, plust, lang (Call)
	1 (first < lad)
	1 = fint;
	5= last just 1 0= mi 1 di
	j= fint; j= last; no j no mai di neute (i <j)< td=""></j)<>
	2 while (number Li) <= number (pivot) 22 i <last)< td=""></last)<>
	I con 1/2 475 a rely to rely de
	public (number G) >number Epinet)
	t: Head
	1 C(4)
	1 tenn = number [10]
	1 (1<1) 1 temp = number (1); number (1) = number (1); g number (1) = temp;
	number 610= temps
	July Committee Colors
	temp=number[pivot); number[pivot] = number [in]
	number (pivot) = number (j))
	2505
	member LD = temps;
	quickout (number, +int j-1);
	quicksort (number, Amt, j-1); quicksort (number, j-1) last);
	3
	void tels (int arrl), int sie, int n)

Z IN FEOD A	
3 1st ssq [e0] (on [0] - 8rc); 3seg [0] = am (on [0] - 8rc);	
Sseq (00 000) (++)	
Sseq LoJ = abs (on loJ = 870)) Rox (i=1;i(s);i+1) Sseq [i] = abs (on[i]-an[i-1));	1222.06
Sala	
Cat sum = 0)	
for (1=0) Kn ; (++)	
sum + = Sseq [1]	r
punt) ("InFIFS In Total sute sequence: It de In aux	t
punt ("INF(1) In 1012)	
for (i=0; i 2n) i 4d)	
for (i=0; i 2n) 1 + +)	
point (" !d", sseq (i))	- 3
quit ("In");	
quity ("lad, sseq (i)) quity ("la"); roid cscan (int an [), int src, int n)	
wood escan (int arr [], int sre, int n)	
1 that ?	
int i, sun = 0 j, sseg[20];	
Outekent Com One Dougland	
(Had self-index)	
for (index =0; index <n; ++)="" index="" td="" {<=""><td></td></n;>	
f) (arr [index) == src) (
hand 1	
break;	
j=0)	
white (ix=n)	
seq Gi) - abs (anti) - anti-1);	
i++;	
1 1++; Charles Charles	
Sseq (j++)= abs (1)	
1=0; disks-arti-13);	
Ssig [j++]= abs (disks = arr[i-1]); sing [j++]= abs (disks); List (< index)	
while (is indeed);	
(de vox)	

53	Sseq [j++] = abs (onli) -an[1-0);
	1+1;
	and the second s
	for (i=0; i < (n+2); i++)
	Sum + = small
	Sum + = sseq [i]
ELI II	print ("in Cocan in Total sede in
ed In crey	print ("In C-SCAN In Total seck sequence: 1.2 In
14	for (i=0) i <n+2; i++)<="" th=""></n+2;>
	part (la , sseq [i])?
	point ("In")
	3 painty ("An"); dail of a sound sail
	8 void scan (int arr (), int src, Put n)
	{
	Ent 1, sum=0, 1 sseq [20);
	quicksot (am, o, n=1)
	int indix g. Cid one y half blooms.
	for (index = 0; index < n; index ++) {
	ed (an Linder) == core) {
	of lantindex) == sore){.
	1 3
	(10-10-10-10-10-10-10-10-10-10-10-10-10-1
	Note To
	j=0; white $(j > = 0)$
	ushilo (1>=0)
	2 ssig [j) = am (on [i) = arrlin [);
	1 1 10 10 01 000
	3 5++;
	i= index + 12 2 ml = follows
	seen [it +id)= ab (an (id) - an [o));
	sseq [j ++)= abo (an(i) - an [o)); whato (1<=n)
	2. sug [j+1] = absi (arr [i] - arr [i-1];
	3 1++)

	1000000
for (1=0); i <n; i++)<="" td=""><td></td></n;>	
sum + = seq [i]; Total sick signine: I'd In an	
sum + = seq [i]; Total sick sequence. Ind In 8000 point ("Ih scan in Total sick sequence. Ind In 8000)	Outi
counte.	Enl
Por (i=0) i <n; i+d)<="" td=""><td>- CA</td></n;>	- CA
for (i=0) i <n; ("1.d",="" ("in");<="" [i])="" i+1)="" printy="" sseq="" td=""><td>Ent</td></n;>	Ent
print ("In")	E
Void main()	
Void main()	FC
net source, arrived, i, n, copy (2)	Tot
Pat source, arrivad, in, copy	Su
print ("Enter number of dists: ");	9
seen (" / d", & n);	
4/2 61 10 1 2	C- T
punt ("In Enter 1.2 values:", n);	1 1
for (i=0) i=n' i+t)	50
scan("1.d", q orr [D)	31
and the second of the second of	
puit ("In Entor source position: "); scan ("1.d", & source);	36
scan (1.d, & source)	Tota
13 (0)	Sect
scan ("1.d", & dishs);	26
scan ("1.d", & dishs):	
D.C.	
for (i=0) i < n; i++)	
The control of the co	
on (n) - source;	
copy [n] = an fin	
PC C C C C C C C C C C C C C C C C C C	
scan (copy source n)	
Cican (com our source n)	
some n)	



OUTPUT:

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 \blacksquare "C:\Users\ysrmo\OneDrive - Base PU College\Desktop\4thsem\CN\CN_LAB\OS\bin\Debug\OS.exe" 
Enter number of disks: 5
Enter 5 values: 10 25 30 45 12
Enter source position: 19
Enter number disks: 50
FCFS
Total seek sequenece: 77
Seek Sequence:
9 15 5 15 33
SCAN
Total seek sequenece: 81
Seek Sequence:
31 5 15 5 13 2 10
C-SCAN
Total seek sequenece: 116
Seek Sequence:
31 50 10 5 2 13 5
```