Write a cprogram for disc scheduling as per FCFS, SCAN, CSCAN CSCAN # include astdio. h> # include cstalib.b> intmain int eg [1003, i, j, n, Total Head Moment =0, 5 initial sixe, move: Printfiventer the no of requests (p"); scant ("1.d", An); Printf ("Enter the request sequence \n"); for (i = 0; i < n; i++) Cuts cut Scanf[">.d", & RQ[i)); Print | ("Enterinitial head position (p"); Scan fly d" & ininal gunes spag rains Printf- 1" Enter total disk size (n"); Scanf 1"7.0", & sixe); 11 101 Prentf I"Enter the head movement direction for wan't & for 10wo 10"); PE: PE 101 Scant ("1.0", & move); 01 . 01 101 11 logic for c-scan disk scheduling for Y'= 0; i < n; i++) for [j=0., j < n-1-1; j++) ([1+[] pg (cj) pa] + i S int temp; temp= Pg [j]; Rg Cj3: RQ C 9+10; Rg[j+1)=temp;

```
int Index;
forli=0; 12n; 9++)
 5
  it limitial < RQ [is)
    index=1;
    break;
                    Tilly P Tetal beard or exercistic 1.0".
     \frac{1}{1000} \frac{1}{1000
     for lisindex; i=n; (++)
    Total Head Moment = Total Head Moment + a bs (size-1-0)
           inipal:0; - a come trapper all dies
    Lociso, icinder, itit) 11209 Down 1110
            $ POUR WILL SIXW - 1000 18 (M)
          Total Head Moment = Total Head Moment + abs 1 Rp [ 17 ] -
          Prubal);
            initial = RQ lis; SFI 21 fagmomon 20 1015
            4
           else
             for 1 := index - 1; i>=0; i-->
             Total Head Moment = Total Head Moment + abs
           leg [i] - inital);
                                         initial = RQ[i];
                   Total Head Moment: Total Head Moment + abs 189 [1]
                  Total Head Moment = Total Head Moment + absisixe-
                   L-0):
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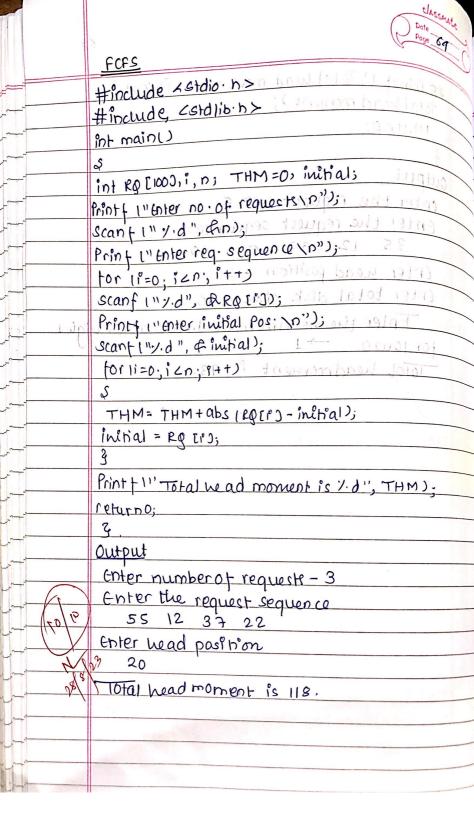
	initial = sixe -1;	
	for (1= n-1; i>= index; i)	
	To tal Head Moment = Total Head Morrison + + abs/pp	in
	fnikal);	1
	initial = RO[1];	
	3	
	3	
	Printy 1" Total head movement is 1.d",	
	Total Head Moment);	
	refino0.	
	3. (mi azirakaiziran	
	Output	
0-1-05/2	Cont On the and and to 5 long and the late	
	total the request sequence - 33 12 229	0
	Enter hand position - 20	_
	Enter total disk size - 100.	_
-(1709	enter head moment direction for high 1 for 10	WO
L	<u>→1</u> (104°)	-
	Total headmoment is 172.	
	-	
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	9219	
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32 60 3 61	E 40 COURS IN 187 & LINESON BOATS TOTAL	and the same of

SCAN

#include Lstdio.h> #include 2stalib. h> int main () Ş int Rg L1003, i,j, n, Total Head Moment=0, initial, sixe, move; Printf l"Enter no . of reguests \n"); s(anf (11 y.d", Chn); Print (l'Enter the requests sequence \n"); for 1:0, icn; 1++) scant ("y.d", a RQ L(3); Printf l'Enter initial head position ("); scanj'i" y.d", finital); Printf l" Enter total disk size In"); scanfilly.d", hsixe); Printf inenter the head moment direction for high 1 and for howoin"); scanfl" y.d", & move); tor (1=0, 1< n; 1++) for (j=0; j'2n-i-1; j'++) (CI+1209 KCjipa) ji THM = THM + abs (LOC ET - in Hall) Int temp; temp = RQ [1]; RQ[;] = RQ[]+1]; 1) 101 210 + MH = 11111 FQ Li+1)= temp; 4 4 4 int index; for 11=0;1<p;1++)

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it linitial ergliss
  index = is
  3 of the month of the first of the cools of the
  break;
  if mov== 10 a/ etrouper to. or 12/10" 1 flor
  for li=index; izn; itt) por out 1910 1110
 Total Head Moment = Total Head Moment + abs/size-po
  Printy ("tenter inited head poor hat(1-C1-1)
    initial= size-1; cloralinis to the " jane
   for 11= index 233>= 031000 1010011 11000
 Total Head Moment = THM + abs(RQ [13 - initial);
                        tor wow orn);
 Pripal = RQ[i);
 29
else
                  ++1:1-1-051:0:2100
for 1 = index -1; i>= 0; i -->
5
  THM = THM + abs (RQ [i] - inikal);
     initial = Rg lid;
THM = THM + abs (eg li +2)-0);
 intial =0;
for li=index; i an; i++)
THM = THM + absiRQ [3 - Prinal);
     initial= RQ Lis;
  4
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1	
	PR Printy 1" Total head move ment is y.d ".
	Total head moment); and dilutes grining it
	returno; (min a defi
	3
	Output cladin cosmin cariconizati
_	enter the request : 5 5 months of the
_	Enter the request sequence:
_	35 12 (37 22 40 11 1 11
_	Enter head position - 20
_	Enter total disk size -100 hours
_	Enter the headmoment direction for high
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_	Total headmoment is 93.93,000
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36 15 5 13 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PS D:\VS Code\OS> cd "d:\VS Code\OS\" ; if ($?) { gcc disks.c -o disks } ; if ($?) { .\disks } Enter number of disks: 5
                                                                                                                                                                                                                                                        9 15 5 15 33
                                                                                                                                                                                                                                                                             Seek Sequence:
                                                                                                                                                                                                                                                                                                                                                                                    Enter number disks: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                      Enter source position: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enter 5 values: 10 25 30 45 12
                  Seek Sequence:
                                                                                                                        Seek Sequence:
31 50 2 2 13 5 15
                                                                                                                                                                                                                                                                                                   Total seek sequenece: 77
                                            Total seek sequenece: 61
                                                                                                                                                                       Total seek sequenece: 118
```

Scanned with CamScanner