Name - Metali Aliera Course - BSC. IT Section - 28 University Rollno - 2023066 Student ID-20052094 Campus - Dehradun Subject name-Operating System Subject Code - PBI 202 Rell no. - 27. Metali Cleogram fou SCAN - Dirk Scheduling Algorithm. Ques2-# include (Stolio hy unt absolute value (int); void main () int queue [25], n, headposition, i, j, K; int beek = 0, maxrange, différence, temp, queue [[20], queue 2[20], temp1 = 0, temp2=0. float average Seek Time; point ("Enter the mari mum range of disk:") Scanf ('0/0d', 1000000 Amarcrange); pring c'Enter the number of queue sequesta: 19 Scang (" %d", sn);

pecinty ("Enter the initial head position: "); Scary ("ofd", & headposition); painty l'Enter the disk position to be read (queue): "); you (i=1; i <= n; i++) 1 scang (" % d", & temp); if (temp > headposition) gueuel[temp/]=temp; g templ++; I queue 2 [temp 2] = temps temp 2++5 yer (1=0-, 12 temp2-1; 1+4) 1 Jan (]= i+1; j2 temp2; j++) temp = queue & [i]; quem 2 [i] = quem 20j); q queue & Ej) = temp,

```
for (i=1) j=0; j < temp1; i++; j++)
 of queue [i] = queuelt j'];
 queue [i] = max range;
Jan (i=temp 1+2, j=0, j<temp2; i++,j++)
  1 quendi] = quene à []);
 que [ i] = 0;
 queue [0] = head position,
 Jeu (j=0; j <= n-, j++)
   différence = absolute Value (queue [j+1]
              quem []];
 Seek = Seek + difference;
peint l'Disk head noues from position
% d to % d with beek % d \n", queue [j],
     queretj+1), difference),
 averageseex Time = seex/Gloat n;
 printy (" Total seek Time = % od \n", seek).
 point ("Average Seen time = "/fin";
                       averagisentine)
```

int absolute Value (int x) ij (x70)

Poutum x;
else Justum nt -1;

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Enter the maximum range of Disk: 100
Enter the number of queue requests: 7
Enter the initial head position: 24
Enter the disk positions to be read(queue): 12
26
24
4
42
8
50
Disk head moves from position 24 to 26 with Seek 2
Disk head moves from position 26 to 42 with Seek 16
Disk head moves from position 42 to 50 with Seek 8
Disk head moves from position 50 to 100 with Seek 50
Disk head moves from position 100 to 24 with Seek 76
Disk head moves from position 24 to 12 with Seek 12
Disk head moves from position 12 to 8 with Seek 4
Disk head moves from position 8 to 4 with Seek 4
Total Seek Time= 172
Average Seek Time= 24.571428
... Program finished with exit code 0
Press ENTER to exit console.
```

input