8. Write a C program to simulate FCFS disk scheduling algorithm and execute your program and find the average head movement with the following test case:

No of tracks 5; Track position:55 58 60 70 18

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   least recently used 7.c   lru page replacement.cpp   fcfs disk scheduling.c   fcfs cpu scheduling.cpp   bankers algorithm 10.c   deadlock detection.c

```c
1    #include<stdio.h>
2    #include<stdlib.h>
3    int main()
4    {
5        int RQ[100],i,n,TotalHeadMoment=0,initial;
6        printf("Enter the number of Requests\n");
7        scanf("%d",&n);
8        printf("Enter the Requests sequence\n");
9        for(i=0;i<n;i++)
10        scanf("%d",&RQ[i]);
11        printf("Enter initial head position\n");
12        scanf("%d",&initial);
13
14        for(i=0;i<n;i++)
15        {
16            TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
17            initial=RQ[i];
18        }
19
20        printf("Total head moment is %d",TotalHeadMoment);
21        return 0;
22
23    }
```

🔳 Compiler   📋 Resources   📊 Compile Log   ✔ Debug   🔍 Find Results   📵 Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\deadlock detection.exe
- Output Size: 129.79296875 KiB
- Compilation Time: 0.28s
```

Line: 16   Col: 60   Sel: 0   Lines: 23   Length: 550   Insert   Done parsing in 0.015 seconds

Type here to search   33°C Partly sunny   ENG   13:28 04-05-2023

er the number of Requests

er the Requests sequence
58 60 70 18
er initial head position

al head moment is 112
----
cess exited after 15.97 seconds with return value 0
ss any key to continue . . . _