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

C:\Users\hp\Documents\fcfs disk scheduling.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

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
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int RQ[100],i,n,TotalHeadMoment=0,initial;
    printf("Enter the number of Requests\n");
    scanf("%d",&n);
    printf("Enter the Requests sequence\n");
    for(i=0;i<n;i++)
     scanf("%d",&RQ[i]);
    printf("Enter initial head position\n");
    scanf("%d",&initial);

    for(i=0;i<n;i++)
    {
        TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
        initial=RQ[i];
    }

    printf("Total head moment is %d",TotalHeadMoment);
    return 0;

}
```

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

C:\Users\hp\Documents\fcfs disk scheduling.exe

```
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 . . .
```