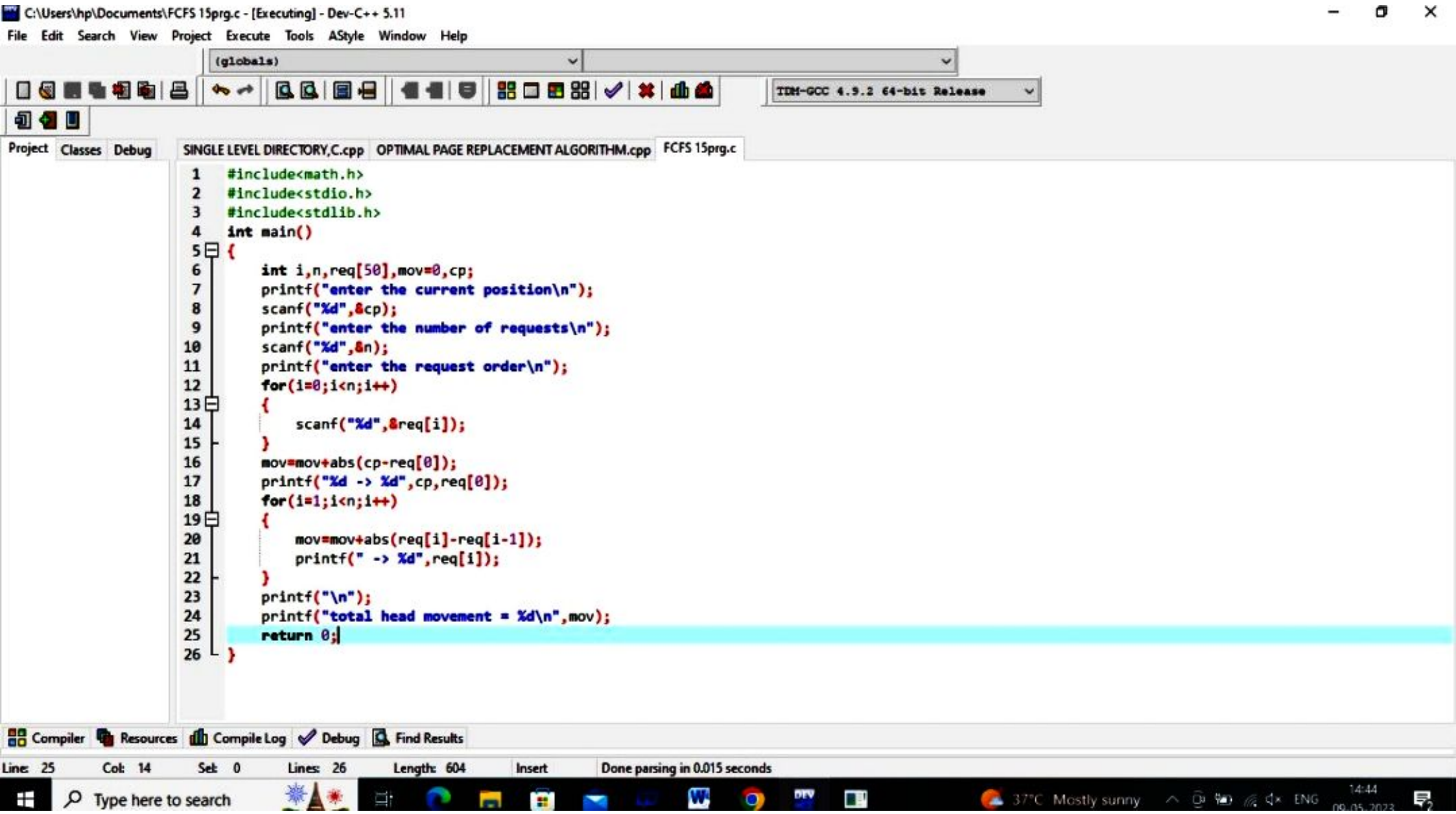
15.Write a C program to simulate FCFS disk scheduling algorithms and execute your program and find out and print the average head movement for the following test case.

No of tracks:9; Track position:55 58 60 70 18 90 150 160 184


C:\Users\hp\Documents\FCFS 15prg.c - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
SINGLE LEVEL DIRECTORY,C.cpp
OPTIMAL PAGE REPLACEMENT ALGORITHM.cpp
FCFS 15prg.c
#include<math.h>
#include<stdio.h>
#include<stdlib.h>
int main()
{
int i,n,req[50],mov=0,cp;
printf("enter the current position\n");
scanf("%d",&cp);
printf("enter the number of requests\n");
scanf("%d",&n);
printf("enter the request order\n");
for(i=0;i<n;i++)
{
scanf("%d",&req[i]);
}
mov=mov+abs(cp-req[0]);
printf("%d -> %d",cp,req[0]);
for(i=1;i<n;i++)
{
mov=mov+abs(req[i]-req[i-1]);
printf(" -> %d",req[i]);
}
printf("\n");
printf("total head movement = %d\n",mov);
return 0;
}
Compiler Resources Compile Log Debug Find Results
Line: 25 Col: 14 Sel: 0 Lines: 26 Length: 604 Insert Done parsing in 0.015 seconds
Type here to search
37°C Mostly sunny
ENG
14:44
09-05-2023

```
enter the current position
100
enter the number of requests
9
enter the request order
55 58 60 70 18 90 150 160 184
100 -> 55 -> 58 -> 60 -> 70 -> 18 -> 90 -> 150 -> 160 -> 184
total head movement = 278

--------------------------------
Process exited after 41.55 seconds with return value 0
Press any key to continue . . .
```