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

Program:-

#include<stdio.h>

int main(){

int t,i,h,m=0;

printf("Enter the number of tracks : ");

scanf("%d",&t);

int p[t+1];

printf("Enter the track positions : \n");

for(i=1;i<t+1;i++){

scanf("%d",&p[i]);

}

printf("Enter the head position : ");

scanf("%d",&h);

p[0]=h;

for(i=0;i<t;i++){

if(p[i]>p[i+1]){

m=m+p[i]-p[i+1];

printf("%d-%d + ",p[i],p[i+1]);

}

else{

m=m+p[i+1]-p[i];

printf("%d-%d + ",p[i+1],p[i]);

}

}

printf("= %d",m);

}

Output:-

