22. Construct a C program to simulate the First Come First Served disk scheduling algorithm.

19.cpp

```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);
}
```

```
C:\Users\kalya\OneDrive\Desktop\19.exe
enter the current position
2
enter the number of requests
4
enter the request order
2
3
4
5
2 -> 2 -> 3 -> 4 -> 5
total head movement = 3

--------------------------------
Process exited after 9.121 seconds with return value 0
Press any key to continue . . .
```