#include <stdio.h>

#include <stdlib.h>

void FCFS(int[], int, int);

void main()

{

int n, i, intialhead;

printf("\n<------- FCFS Disk Scheduling Algorithm ------->\n\n");

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

scanf("%d", &n);

int req[n];

printf("Enter the sequence: ");

for (i = 0; i < n; i++)

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

printf("Enter the initial head: ");

scanf("%d", &intialhead);

FCFS(req, intialhead, n);

}

void FCFS(int p[], int intial, int n)

{

int i, total = 0;

for (i = 0; i < n; i++)

{

total += abs(p[i] - intial);

intial = p[i];

}

printf("\n==> Total head movement = %d\n", total);

}