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

#include <stdio.h>

#include <stdlib.h>

int main() {

int requests[100], n, i, head, totalSeek = 0;

printf("Enter number of disk I/O requests: ");

scanf("%d", &n);

printf("Enter the request sequence:\n");

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

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

printf("Enter initial head position: ");

scanf("%d", &head);

printf("\nOrder of head movement:\n");

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

printf("Head moves from %d to %d (Seek = %d)\n", head, requests[i], abs(requests[i] - head));

totalSeek += abs(requests[i] - head);

head = requests[i];

}

printf("\nTotal Seek Time = %d\n", totalSeek);

printf("Average Seek Time = %.2f\n", (float)totalSeek / n);

return 0;

}