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

```
#include <stdio.h>
#include <stdlib.h>

void FCFS(int requests[], int n, int head) {
    int seekCount = 0;
    int distance;

    printf("\nDisk Head Movement:\n");
    printf("%d", head);

    for (int i = 0; i < n; i++) {
        distance = abs(requests[i] - head);
        seekCount += distance;
        head = requests[i];
        printf(" -> %d", head);
    }

    printf("\nTotal Seek Time: %d\n", seekCount);
    printf("Average Seek Time: %.2f\n", (float)seekCount / n);
}

int main() {
    int n, head;

    printf("Enter number of disk requests: ");
    scanf("%d", &n);
```

```
    int requests[n];
    printf("Enter disk request queue: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &requests[i]);
    }

    printf("Enter initial head position: ");
    scanf("%d", &head);

    FCFS(requests, n, head);

    return 0;
}
```

Sample Output