

```
#include <stdio.h>

#include <stdlib.h>

int main() {
    int head, n, total = 0;
    float avg_seek_time;

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

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

    int requests[n];

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

    // Calculate total head movement
    for (int i = 0; i < n; i++) {
        total += abs(head - requests[i]);
        head = requests[i];
    }

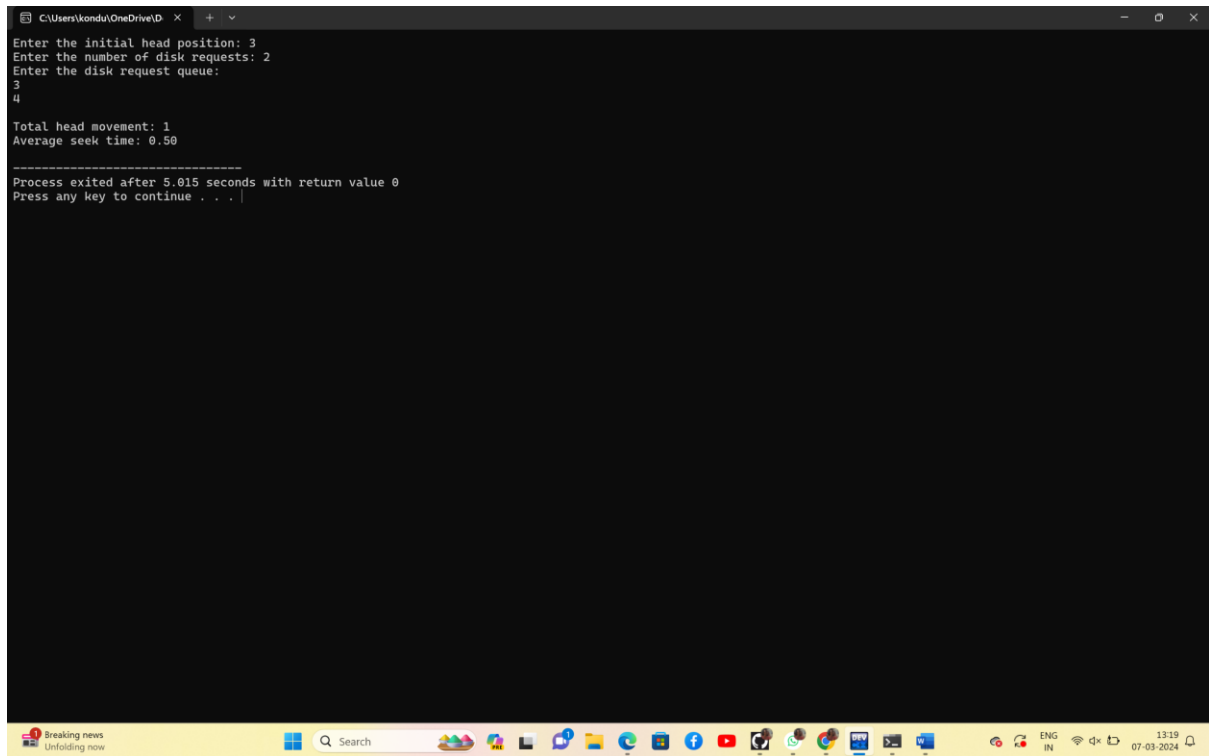
    // Calculate average seek time
    avg_seek_time = (float)total / n;

    // Display results
    printf("\nTotal head movement: %d\n", total);
```

```
printf("Average seek time: %.2f\n", avg_seek_time);
```

```
return 0;
```

```
}
```



The screenshot shows a Windows command prompt window with the following text:

```
C:\Users\kondur\OneDrive\ID >
Enter the initial head position: 3
Enter the number of disk requests: 2
Enter the disk request queue:
3
4

Total head movement: 1
Average seek time: 0.50

=====
Process exited after 5.015 seconds with return value 0
Press any key to continue . . . |
```

The window title bar indicates the path `C:\Users\kondur\OneDrive\ID`. The taskbar at the bottom shows various application icons, including the Start button, Search, and several open applications like File Explorer, Edge, and various social media apps. The system tray on the right shows the date and time as 13:19 on 07-09-2024.