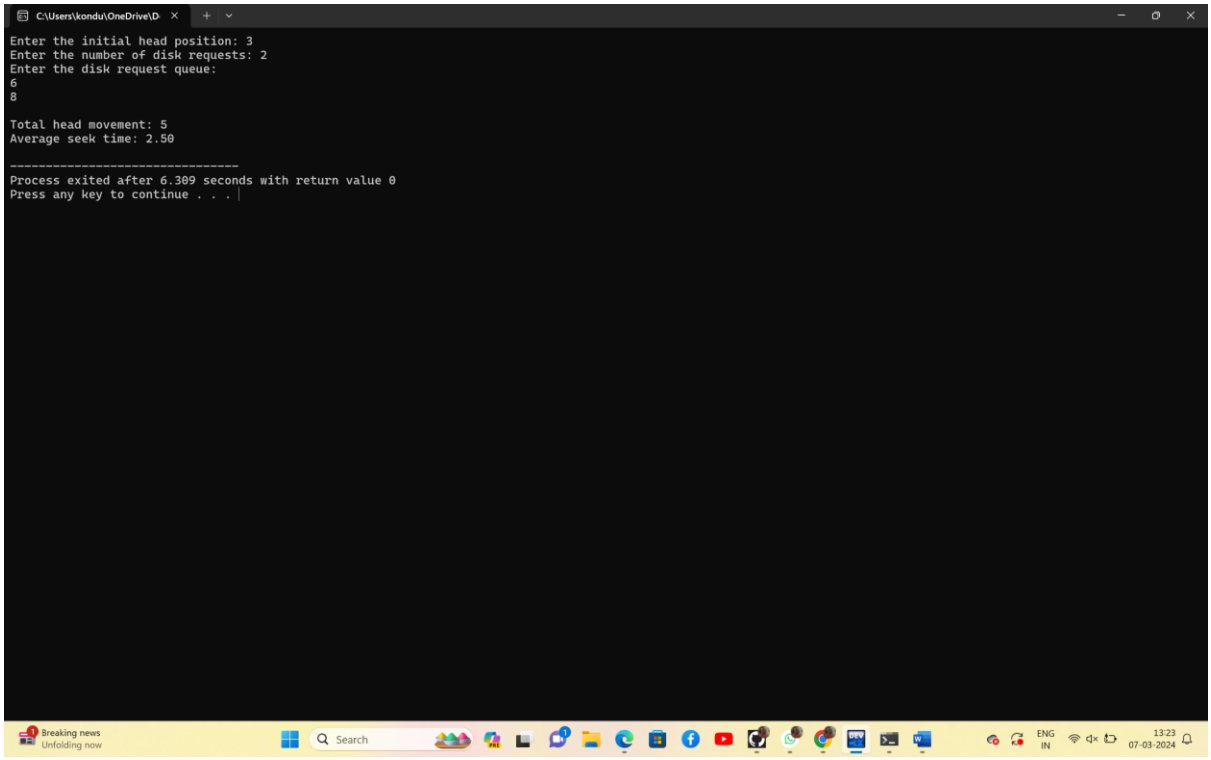
```c
#include <stdio.h>
#include <stdlib.h>

#define MAX 100

int compare(const void *a, const void *b) {
    return (*(int*)a - *(int*)b);
}

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]);
    }

    // Sort the disk request queue
    qsort(requests, n, sizeof(int), compare);

    // Calculate total head movement
    int index;
```

```
    for (index = 0; index < n; index++) {
        if (requests[index] >= head) {
            break;
        }
    }

    for (int i = index; i < n; i++) {
        total += (requests[i] - head);
        head = requests[i];
    }

    if (index != 0) {
        total += (requests[n - 1] - requests[index - 1]);
        head = 0;
    }

    // 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;
}
```


C:\Users\kondu\OneDrive\D
Enter the initial head position: 3
Enter the number of disk requests: 2
Enter the disk request queue:
6
8
Total head movement: 5
Average seek time: 2.50
--------------------------------
Process exited after 6.309 seconds with return value 0
Press any key to continue . . .
Breaking news
Unfolding now
Search
ENG
IN
13:23
07-03-2024