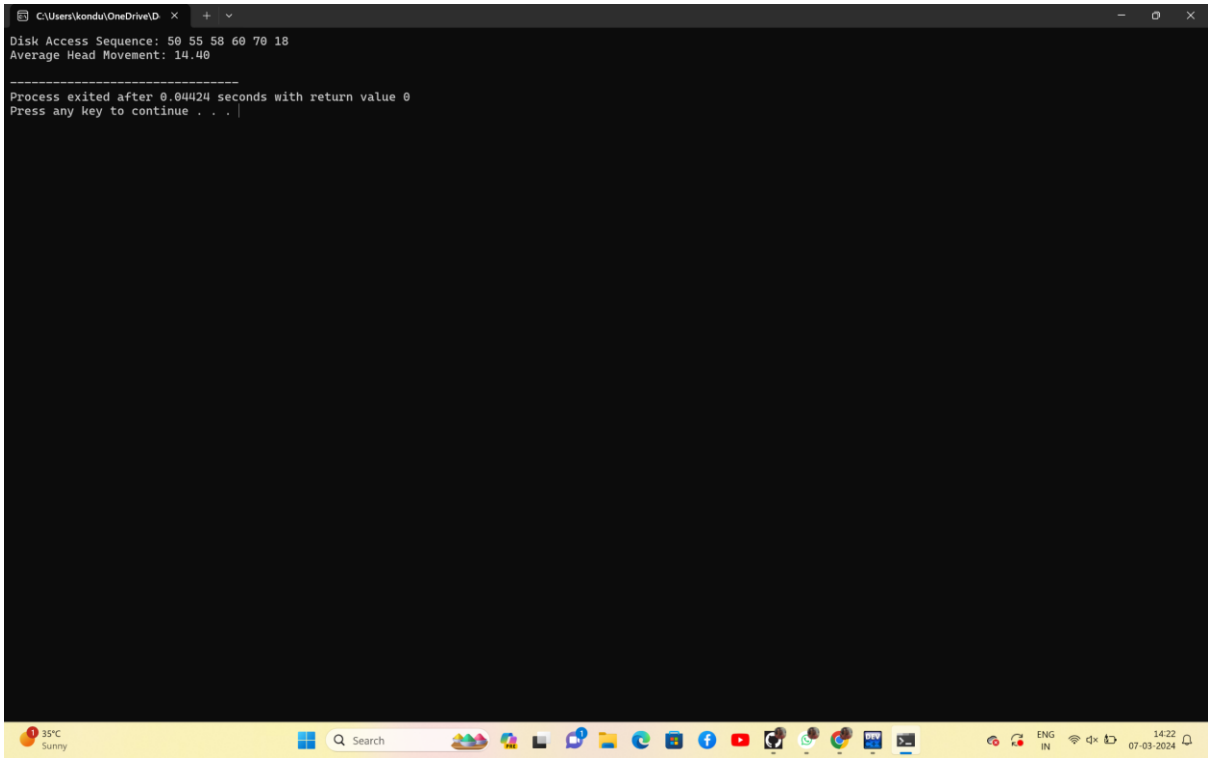
```
#include <stdio.h>

#include <stdlib.h>



int main() {

    int n = 5;

    int tracks[] = {55, 58, 60, 70, 18};

    int head_pos = 50;

    int i, j, temp, sum = 0;



    // sort tracks in ascending order

    for (i = 0; i < n - 1; i++) {

        for (j = i + 1; j < n; j++) {

            if (tracks[i] > tracks[j]) {

                temp = tracks[i];

                tracks[i] = tracks[j];

                tracks[j] = temp;
```

```
        }

    }

}



// find index of head position in tracks

int head_index;

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

    if (tracks[i] >= head_pos) {

        head_index = i;

        break;

    }

}



// print sequence of disk access

printf("Disk Access Sequence: %d ", head_pos);
```

```
for (i = head_index; i < n; i++) {

    printf("%d ", tracks[i]);

    sum += abs(head_pos - tracks[i]);

    head_pos = tracks[i];

}

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

    printf("%d ", tracks[i]);

    sum += abs(head_pos - tracks[i]);

    head_pos = tracks[i];

}



// calculate and print average head movement

float avg = (float)sum / n;

printf("\nAverage Head Movement: %.2f\n", avg);



return 0;
```

}


C:\Users\kondu\OneDrive\D
Disk Access Sequence: 50 55 58 60 70 18
Average Head Movement: 14.40

Process exited after 0.04424 seconds with return value 0
Press any key to continue . . .
35°C
Sunny
Search
ENG
IN
14:22
07-03-2024