

main.c



Share

Run

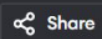
Output

```
1 #include <stdio.h>
2 void cscan(int arr[], int size, int head, int disk_size) {
3     int seek_sequence[size + 1], index = 0, distance, total_seek = 0;
4     for (int i = 0; i < size - 1; i++)
5         for (int j = 0; j < size - i - 1; j++)
6             if (arr[j] > arr[j + 1]) {
7                 int temp = arr[j];
8                 arr[j] = arr[j + 1];
9                 arr[j + 1] = temp;
10            }
11    for (int i = 0; i < size; i++) {
12        if (arr[i] >= head) {
13            seek_sequence[index++] = arr[i];
14            distance = arr[i] - head;
15            total_seek += distance;
16            head = arr[i];
17        }
18    }
19    total_seek += (disk_size - head);
20    head = 0;
21    seek_sequence[index++] = head;
22    for (int i = 0; i < size; i++) {
23        if (arr[i] < head) {
24            seek_sequence[index++] = arr[i];
25            distance = arr[i] - head;
```

```
Total Seek Time: 150
Seek Sequence: 60 79 92 114 176 0

=== Code Execution Successful ===
```

main.c



Run

Output

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 void fcfs(int requests[], int n, int start) {
4     int total_head_movement = 0, current_position = start;
5     for (int i = 0; i < n; i++) {
6         total_head_movement += abs(current_position - requests[i]);
7         current_position = requests[i];
8     }
9     printf("Total head movement: %d\n", total_head_movement);
10 }
11 int main() {
12     int requests[] = {176, 79, 34, 60, 92, 11, 41, 114};
13     int n = sizeof(requests) / sizeof(requests[0]);
14     int start = 50;
15     fcfs(requests, n, start);
16     return 0;
17 }
18

```

Total head movement: 510

=== Code Execution Successful ===