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main.c



Run

Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define MAX_TRACKS 100
4 int cmpfunc(const void *a, const void *b) {
5     return (*(int *)a - *(int *)b);
6 }
7 int clook(int tracks[], int num_tracks, int start_track) {
8     int head_movement = 0;
9     int current_track = start_track;
10    int i, j;
11    qsort(tracks, num_tracks, sizeof(int), cmpfunc);
12    for (i = 0; i < num_tracks; i++) {
13        if (tracks[i] == start_track) {
14            break;
15        }
16    }
17    for (j = i; j < num_tracks; j++) {
18        head_movement += abs(tracks[j] - current_track);
19        current_track = tracks[j];
20    }
21    for (j = 0; j < i; j++) {
22        head_movement += abs(tracks[j] - current_track);
23        current_track = tracks[j];
24    }
25    return head_movement;
26 }
27 int main() {
28     int tracks[] = {55, 58, 60, 70, 181};
```

```
/tmp/CnvNfBqfZK.o
Track Positions: 18 55 58 60 70
Start Track: 55
Total Head Movement: 67
Average Head Movement: 13.40
```

Clear

Average Head Movement: 13.40

