

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main() {
4     int n, head, seek_time = 0;
5     printf("Enter the number of disk requests: ");
6     scanf("%d", &n);
7     int request_queue[n];
8     printf("Enter the disk request queue:\n");
9     for (int i = 0; i < n; i++) {
10         scanf("%d", &request_queue[i]);
11     }
12     printf("Enter the initial position of the disk head: ");
13     scanf("%d", &head);
14     printf("\nFCFS Disk Scheduling:\n");
15     printf("Head Movement Sequence: %d", head);
16     for (int i = 0; i < n; i++) {
17         seek_time += abs(head - request_queue[i]);
18         head = request_queue[i];
19         printf(" -> %d", head);
20     }
21     printf("\nTotal Seek Time: %d\n", seek_time);
22     printf("Average Seek Time: %.2f\n", (float)seek_time / n);
23     return 0;
24 }
```

Enter the number of disk requests: 3

Enter the disk request queue:

270

333

110

Enter the initial position of the disk head: 1

FCFS Disk Scheduling:

Head Movement Sequence: 1 -> 270 -> 333 -> 110

Total Seek Time: 555

Average Seek Time: 185.00

Process exited after 27.02 seconds with return value 0

Press any key to continue . . . |