

CA\Users\mudir\OneDrive\Documents\OS38.cpp - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 9.2.0 64-bit Release

(globals)

Project Class

OS31.cpp OS32.cpp OS33.cpp OS34.cpp OS36.cpp OS37.cpp OS38.cpp

```
77 printf("Move from %d to %d | Movement = %d\n", head, scan_requests[i], abs(scan_requests[i]-head));
78 total_movement += abs(scan_requests[i]-head);
79 head = scan_requests[i];
80 }
81 for(i = head_index-1; i >= 0; i--) {
82     printf("Move from %d to %d | Movement = %d\n", head, scan_requests[i], abs(scan_requests[i]-head));
83     total_movement += abs(scan_requests[i]-head);
84     head = scan_requests[i];
85 }
86 } else {
87     for(i = head_index; i >= 0; i--) {
88         if(scan_requests[i] == head) continue;
89         printf("Move from %d to %d | Movement = %d\n", head, scan_requests[i], abs(scan_requests[i]-head));
90         total_movement += abs(scan_requests[i]-head);
91         head = scan_requests[i];
92     }
93     for(i = head_index+1; i < total_requests; i++) {
94         printf("Move from %d to %d | Movement = %d\n", head, scan_requests[i], abs(scan_requests[i]-head));
95         total_movement += abs(scan_requests[i]-head);
96         head = scan_requests[i];
97     }
98 }
99
100 printf("\nTotal head movement: %d\n", total_movement);
101 printf("Average head movement: %.2f\n", (float)total_movement / n);
102
103 return 0;
104 }
105 }
```

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

Errors: 0
Warnings: 0
Output Filename: C:\Users\mudir\OneDrive\Documents\OS38.exe
Output Size: 324.953125 KiB
Compilation Time: 0.22s

Shorten compiler path

Line: 86 Col: 13 Sel: 0 Lines: 105 Length: 3543 Insert Done parsing in 0 seconds

SCAN Disk Scheduling Simulation

Enter the number of disk requests: 5
Enter the disk request sequence (space separated):
2
4
6
8
9
Enter initial head position: 3
Enter direction (0 = towards 0, 1 = towards max cylinder): 2
Enter maximum cylinder number: 3

Disk head movement:

Move from	Move to	Movement
3	2	1
2	3	1
3	4	1
4	6	2
6	8	2
8	9	1

Total head movement: 8
Average head movement: 1.60

Process exited after 11.16 seconds with return value 0
Press any key to continue . . .

16:14 06-10-2025