

CA\Users\vmudir\OneDrive\Documents\OS39.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 OS39.cpp

```
62
63     printf("\nDisk head movement (C-SCAN):\n");
64     printf("-----\n");
65
66
67     for(i = 0; i < g_count; i++) {
68         printf("Move from %d to %d | Movement = %d\n", head, greater[i], abs(greater[i]-head));
69         total_movement += abs(greater[i]-head);
70         head = greater[i];
71     }
72
73     if(l_count > 0) {
74         printf("Move from %d to 0 (jump to start)\n", head);
75         total_movement += abs(head - 0);
76         head = 0;
77
78         for(i = 0; i < l_count; i++) {
79             printf("Move from %d to %d | Movement = %d\n", head, less[i], abs(less[i]-head));
80             total_movement += abs(less[i]-head);
81             head = less[i];
82         }
83     }
84
85     printf("\nTotal head movement: %d\n", total_movement);
86     printf("Average head movement: %.2f\n", (float)total_movement / n);
87
88     return 0;
89 }
90
```

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler pat

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\vmudir\OneDrive\Documents\OS39.exe  
Output Size: 324.953125 KiB  
Compilation Time: 0.19s

Line: 66 Col: 5 Sel: 0 Lines: 90 Length: 2524 Insert Done parsing in 0 seconds

C-SCAN Disk Scheduling Simulation

Enter the number of disk requests: 5  
Enter the disk request sequence (space separated):  
23  
45  
56  
78  
56  
Enter initial head position: 45  
Enter maximum cylinder number: 3

Disk head movement (C-SCAN):

Move from 45 to 45 | Movement = 0  
Move from 45 to 56 | Movement = 11  
Move from 56 to 56 | Movement = 0  
Move from 56 to 78 | Movement = 22  
Move from 78 to 0 (jump to start)  
Move from 0 to 23 | Movement = 23

Total head movement: 134  
Average head movement: 26.80

-----  
Process exited after 15.35 seconds with return value 0  
Press any key to continue . . .

16:16  
06-10-2025