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Course: MCA OL

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Subject: OMC 109 Operating Systems & Computer Networks

Forma. 01

First Come First Serve ~~CPU~~ Disk scheduling

Algorithm

1. Read # disk requests
2. Read disk queue
3. Read initial head position
4. Perform FCFS() disk scheduling
5. Call FCFS() from main()

FCFS

1. movement = 0
2. add head movements & distance to movements
3. update head position

Code

```
#include <stdio.h>
#include <stdlib.h>
void FCFS (int cylinder[], int numcyli, int head_pos){
        int movement = 0; int cur_cyli, distance;
        for (int i=0; i < num_cyli; i++) {
                cur_cyli = cylinder[i];
                distance = abs (head_pos - cur_cyli);
                movement += distance;
                printf ("%d   %d   %d \n", head_pos, cur_cycli, distance);
                head_pos = cur_cyli;
            }
           printf (" Total # movements = %d \n", movement);
    }
int main () {
    int cylinder[], num_cyli, head_pos;
    scanf ("%d", & num_cyli); scanf ("%d", & head_pos);
    for (int i=0; i < num_cyli; i++) scanf ("%d", & cylinder[i]);

    FCFS (cylinder, num_cyli, head_pos);
    return 0;
}
```

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Sample Input

8 ← # num cyli

53 ← head position

98
183
37
122 ← cylinder
14
124
65
67

Sample Output

53	98	45
98	183	85
183	37	146
37	122	85
122	14	108
14	124	110
124	65	59
65	67	2

Total # movements = 640