Cructical No. 8 * Aim: Implement jack scheduling upproch. * Theory :-Disk scheduling is a crucial aspect of 05 design especially in system where multiple processor ever untending for usus to a short disk I ensure efficient. tell utilization of disk Irusurus k · minings access textenly. Befor cleling into specific disk schelling algorithm to executive to executive to executive. 1 Disk wees time: The time tuken to porpor a read or write operation or the disk comprising suk time, rotations delay and trunsfer time. · Sick time: - time taken by the disk arm. To move to the disired track. Retational delay: - Ting taken to the desired clisk section to retate under



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```
#include <stdio.h>
     void fcfs(int requests[], int numRequests, int head) {
       int totalHeadMovement = 0;
      printf("FCFS Disk Scheduling Algorithm\n");
      printf("Request sequence: ");
      for (int i = 0; i < numRequests; i++) {
        printf("%d ", requests[i]);
     printf("\n");
     printf("Head position: %d\n", head);
    for (int i = 0; i < numRequests; i++) {
      int request = requests[i];
      int movement = abs(request - head);
      totalHeadMovement += movement;
     printf("Move head from %d to %d (movement = %d)\n", head, request, movement);
     head = request;
   }
  printf("Total head movement: %d\n", totalHeadMovement);
int main() {
  int requests1[] = {10, 54, 21, 66, 88, 15};
  int numRequests1 = sizeof(requests1) / sizeof(requests1[0]);
  int head1 = 50;
```

}

```
fcfs(requests1, numRequests1, head1);
      return 0;
    }
    Output:
   /tmp/DvKDFrFgxu.c: In function 'fcfs':
   /tmp/DvKDFrFgxu.c:17:24: warning: implicit declaration of function 'abs' [-Wimplicit-function-
   declaration]
    17 |
             int movement = abs(request - head);
  /tmp/DvKDFrFgxu.c:2:1: note: include '<stdlib.h>' or provide a declaration of 'abs'
    1 | #include <stdio.h>
   +++ |+#include <stdlib.h>
    21
 /tmp/DvKDFrFgxu.o
 FCFS Disk Scheduling Algorithm
 Request sequence: 10 54 21 66 88 15
 Head position: 50
 Move head from 50 to 10 (movement = 40)
 Move head from 10 to 54 (movement = 44)
Move head from 54 to 21 (movement = 33)
Move head from 21 to 66 (movement = 45)
Move head from 66 to 88 (movement = 22)
Move head from 88 to 15 (movement = 73)
Total head movement: 257
```

=== Code Execution Successful ===