37.Construct a C program to simulate the First Come First Served disk scheduling algorithm.

```
#include <stdio.h>
#include <stdlib.h>
int main() {
   int queue[20], n, head, i, total = 0, distance;
   printf("Enter the number of disk requests: ");
   scanf("%d", &n);
   printf("Enter the disk request queue (in cylinder numbers):\n");
   for (i = 0; i < n; i++) {
      scanf("%d", &queue[i]);
   }
   printf("Enter the initial head position: ");
   scanf("%d", &head);
   printf("\nSeek Sequence is:\n");
   for (i = 0; i < n; i++) {
      distance = abs(queue[i] - head);
      total += distance;
      head = queue[i];
      printf("%d -> ", head);
   }

   printf("\nTotal head movement: %d\n", total);
   printf("Average head movement: %.2f\n", (float) total / n);
   return 0;
}
```

OUTPUT:

```
[?2004l
File 'demo.txt' created successfully.
Initial File permissions: rw-r--r--
```

File permissions changed to 754 (rwxr-xr--).

Updated File permissions: rwxr-xr--

Explanation:

Owner: rwx (read, write, execute)

Group: r-x (read, execute)

Others: r-- (read only)

[?2004h