## Write a C program to simulate disk scheduling algorithms.

## a) FCFS

```
#include <stdio.h>
#include <stdlib.h> // Added for the abs() function
int main() {
 int n, i, start, totalHeadMovement = 0;
 printf("Enter the number of disk requests: ");
 scanf("%d", &n);
 int requests[n];
 printf("Enter the disk requests:\n");
 for(i = 0; i < n; i++) {
   scanf("%d", &requests[i]);
 }
 printf("Enter the starting position of the disk head: ");
 scanf("%d", &start);
 printf("\nDisk Scheduling (FCFS):\n");
 int prev = start;
 for(i = 0; i < n; i++) {
   totalHeadMovement += abs(requests[i] - prev);
   printf("Move from %d to %d\n", prev, requests[i]);
   prev = requests[i];
 }
 printf("\nTotal Head Movement = %d\n", totalHeadMovement);
 return 0;
}
   Output
 Enter the number of disk requests: 2
 Enter the disk requests:
 Enter the starting position of the disk head: 3
 Disk Scheduling (FCFS):
 Move from 3 to 36
 Move from 36 to 63
 Total Head Movement = 60
```