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# PROGRAM TO IMPLEMENT DISK SCHEDULING ALGORITHMS - FCFS

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**CODE:**

#include <stdio.h>

#include <stdlib.h>

#define MAX 25

int n, head, seek\_count, tracks[MAX];

void fcfsds() {

int curr\_track, distance;

seek\_count = 0;

for (int i = 0; i < n; i++) {

curr\_track = tracks[i];

distance = abs(head - curr\_track);

seek\_count += distance;

head = curr\_track;

}

}

int main() {

printf("\n FCFS Disk Scheduling\n");

printf("\n Enter the number of tracks to be seeked : ");

scanf("%d", & n);

if (n > MAX) {

printf("\n Number of tracks to be seeked cannot exceed %d. Exiting...\n", MAX);

exit(0);

}

printf("\n Enter the starting position of the head : ");

scanf("%d", & head);

printf("\n Enter the tracks to be seeked : ");

for (int i = 0; i < n; i++)

scanf("%d", & tracks[i]);

fcfsds();

printf("\n The Seek Sequence is : ");

for (int i = 0; i < n - 1; i++)

printf(" %d -> ", tracks[i]);

printf(" %d\n", tracks[n - 1]);

printf("\n The Seek Count is : %d\n", seek\_count);

return (0);

}

**OUTPUT:**

