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#include <stdio.h>
#include <stdlib.h>
#include <math.h>

int main() {
    int queue[100], queue2[100], q_size, head, seek=0, temp;

    printf("%s\n", "SSTF Disk Scheduling Algorithm");

    printf("%s\n", "Enter the size of the queue");
    scanf("%d", &q_size);

    printf("%s\n", "Enter queue elements");
    for(int i=0; i<q_size; i++){
        scanf("%d",&queue[i]);
    }

    printf("%s\n", "Enter initial head position");
    scanf("%d", &head);

    for(int i=0; i<q_size; i++){
        queue2[i] = abs(head-queue[i]);
    }
    for(int i=0; i<q_size; i++){
        for(int j=i+1; j<q_size;j++){

            if(queue2[i]>queue2[j]){
                temp = queue2[i];
                queue2[i]=queue2[j];
                queue2[j]=temp;

                temp=queue[i];
                queue[i]=queue[j];
                queue[j]=temp;
            }
        }
    }

    for(int i=1; i<q_size; i++){
        seek = seek+abs(head-queue[i]);
        head = queue[i];
    }

    printf("\nTotal seek time is %d\t",seek);

    return 0;
}

```