**SSTF**

#include<stdio.h>  
#include<stdlib.h>  
int main()  
{  
    int RQ[100],i,n,TotalHeadMoment=0,initial,count=0;  
    printf("Enter the number of Requests\n");  
    scanf("%d",&n);  
    printf("Enter the Requests sequence\n");  
    for(i=0;i<n;i++)  
     scanf("%d",&RQ[i]);  
    printf("Enter initial head position\n");  
    scanf("%d",&initial);  
     
    // logic for sstf disk scheduling  
     
        /\* loop will execute until all process is completed\*/  
    while(count!=n)  
    {  
        int min=1000,d,index;  
        for(i=0;i<n;i++)  
        {  
           d=abs(RQ[i]-initial);  
           if(min>d)  
           {  
               min=d;  
               index=i;  
           }  
             
        }  
        TotalHeadMoment=TotalHeadMoment+min;  
        initial=RQ[index];  
        // 1000 is for max  
        // you can use any number  
        RQ[index]=1000;  
        count++;  
    }  
     
    printf("Total head movement is %d",TotalHeadMoment);  
    return 0;  
}  
/\*output:  
comp67@comp67:~/Desktop/ishaa$ gcc FCFS.c  
comp67@comp67:~/Desktop/ishaa$ ./a.out  
Enter the number of Requests  
8  
Enter the Requests sequence  
98 183 37 122 14 124 65 67  
Enter initial head position  
53  
Total head movement is 236\*/