```
#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:
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~$ cd Abhishek
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/Abhishek$ gcc sstf.c
avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/Abhishek$ ./a.out
Enter the number of Requests
5
Enter the Requests sequence
23
34
56
12
56
```

Enter initial head position
25
Total head movement is 79avcoe@avcoe-HP-ProDesk-400-G1-SFF:~/Abhishek$*/