

**AIM :** Implement the C program for Disk Scheduling Algorithms: SSTF, SCAN, C-Look considering the initial head position moving away from the spindle.

```
//SSTF Disk Scheduling Algorithm
```

```
/* Implementation of Shortest Seek Time First (SSTF) Disk scheduling algorithm*/
```

```
#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];
RQ[index]=1000;
count++;
}

printf("Total head movement is %d",TotalHeadMoment);
return 0;
}
```