SCAN DISK SCHEDULING

```
#include <stdio.h>
#include <stdlib.h>
int main() {
  int n, head, i, j, seek=0, direction;
  int req[20], temp;
  printf("Enter number of requests: ");
  scanf("%d",&n);
  printf("Enter request sequence: ");
  for(i=0;i \le n;i++) scanf("\%d",\&req[i]);
  printf("Enter initial head position: ");
  scanf("%d",&head);
  printf("Enter direction (0=left,1=right): ");
  scanf("%d",&direction);
  for(i=0;i< n-1;i++) {
     for(j=i+1;j< n;j++) {
       if(req[i]>req[j]) { temp=req[i]; req[i]=req[j]; req[j]=temp; }
     }
  }
  int pos=0;
  for(i=0;i<n;i++) if(req[i]>head) { pos=i; break; }
  if(direction==1) {
     for(i=pos;i < n;i++)  { seek += abs(reg[i]-head); head=reg[i]; }
     seek += abs(199-head); head=199;
     for(i=pos-1;i>=0;i--)  { seek += abs(req[i]-head); head=req[i]; }
  } else {
     for(i=pos-1;i>=0;i--)  { seek += abs(req[i]-head); head=req[i]; }
     seek += abs(head-0); head=0;
     for(i=pos;i<n;i++) { seek += abs(req[i]-head); head=req[i]; }
  }
```

```
printf("Total Seek Time = %d\n",seek);
return 0;
}
```