```
/* C-SCAN */
#include<stdio.h>
#include<stdlib.h>
int main() {
    int i,j,seek = 0,n,size,d[100],disk;
    int temp, max, dloc;
    float avg;
    printf("\n C-SCAN DISK SCHEDULING");
    printf("\n ----\n");
    printf("\n Enter total disk size: ");
    scanf("%d",&size);
    printf(" Enter size of the request queue: ");
    scanf("%d",&n);
    printf(" Enter requests: ");
    for(i=0;i<n;i++){</pre>
        scanf("%d",&d[i]);
    printf(" Enter head position: ");
    scanf("%d",&disk);
    d[n]=disk;
    for(i = 0;i <= n;i++){</pre>
        for(j = 0; j \le n; j++){
            if(d[i] > d[j]){
                temp = d[i];
                d[i] = d[j];
                d[j] = temp;
            }
        }
    }
    max = d[n];
    for(i = 0; i \le n; i++) {
        if(d[i] == disk){
            dloc=i;
            break;
        }
    }
    for(i = dloc;i <= n;i++){</pre>
        printf("%d -->",d[i]);
    }
    printf("0-->");
    printf("199-->");
    for(i = 0;i < dloc;i++){</pre>
        printf(" %d-->",d[i]);
    printf("%d",d[i]);
    seek = size-1+((size-1)-d[dloc])+d[dloc-1];
```

```
printf("\n Total seek time is : %d",seek);
avg=seek/(float)n;
printf("\n Average seek time is : %f",avg);
printf("\n\n");
return 0;
}
```