

OnlineGDB beta
online compiler and debugger for c/c++

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```
main.c
8
9 #include<stdio.h>
10 int absoluteValue(int);
11 int main()
12 {
13     int queue[25],n,headposition,i,j,k,seek=0, maxrange,
14     difference,temp,queue1[20],queue2[20],temp1=0,temp2=0;
15     float averageSeekTime;
16     printf("Enter the maximum range of Disk: ");
17     scanf("%d",&maxrange);
18     printf("Enter the number of queue requests: ");
19     scanf("%d",&n);
20     printf("Enter the initial head position: ");
21     scanf("%d",&headposition);
22     printf("Enter the disk positions to be read(queue): ");
23     for(i=1;i<=n;i++)
24     {
25         scanf("%d",&temp);
26
27         if(temp>headposition)
28         {
29             queue1[temp1]=temp;
30             temp1++;
31         }
32         else
33         {
34             queue2[temp2]=temp;
35             temp2++;
36         }
37     }
38     for(i=0;i<temp1-1;i++)
39     {
40         for(j=i+1;j<temp1;j++)
41         {
42             if(queue1[i]>queue1[j])
```

```
40 for (j=i+1; j<temp2; j++)
41 {
42     if(queue1[i]>queue1[j])
43     {
44         temp=queue1[i];
45         queue1[i]=queue1[j];
46         queue1[j]=temp;
47     }
48 }
49 }
50 for(i=0; i<temp2-1; i++)
51 {
52     for(j=i+1; j<temp2; j++)
53     {
54         if(queue2[i]<queue2[j])
55         {
56             temp=queue2[i];
57             queue2[i]=queue2[j];
58             queue2[j]=temp;
59         }
60     }
61 }
62 for(i=1, j=0; j<temp1; i++, j++)
63 {
64     queue[i]=queue1[j];
65 }
66 queue[i]=maxrange;
67 {
68     queue[i]=queue2[j];
69 }
70 queue[i]=0;
71 queue[0]=headposition;
72 for(j=0; j<=n; j++)
73 {
74     difference = absoluteValue(queue[j+1]-queue[j]);
75     peak = peak + difference;
```

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
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main.c

```
59     }
60 }
61 }
62 for(i=1,j=0;j<temp1;i++,j++)
63 {
64     queue[i]=queue1[j];
65 }
66 queue[i]=maxrange;
67 {
68     queue[i]=queue2[j];
69 }
70 queue[i]=0;
71 queue[0]=headposition;
72 for(j=0; j<=n; j++)
73 {
74     difference = absoluteValue(queue[j+1]-queue[j]);
75     seek = seek + difference;
76     printf("Disk head moves from position %d to %d with Seek %d \n", queue[j], queue[j+1], difference);
77 }
78 averageSeekTime = seek/(float)n;
79 printf("Total Seek Time= %d\n", seek);
80 printf("Average Seek Time= %f\n", averageSeekTime);
81 }
82 int absoluteValue(int x)
83 {
84     if(x>0)
85     {
86         return x;
87     }
88     else
89     {
90         return x*-1;
91     }
92 }
93
```

input

