C:\Users\kadiv\OneDrive\Documents\scan scheduling.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

scan scheduling.cpp

```
#include<stdio.h>
int absoluteValue(int);

int main()
{
    int queue[25],n,headposition,i,j,k,seek=0, maxrange,
    difference,temp,queue1[20],queue2[20],temp1=0,temp2=0;
    float averageSeekTime;


    printf("Enter the maximum range of Disk: ");
    scanf("%d",&maxrange);


    printf("Enter the number of queue requests: ");
    scanf("%d",&n);


    printf("Enter the initial head position: ");
    scanf("%d",&headposition);


    printf("Enter the disk positions to be read(queue): ");
    for(i=1;i<=n;i++)
    {
        scanf("%d",&temp);

        if(temp>headposition)
        {
            queue1[temp1]=temp;
            temp1++;
        }
        else
        {
            queue2[temp2]=temp;
```

Line: 103 Col: 1 Sel: 0 Lines: 116 Length: 2204 Insert Done parsing in 0.078 seconds

ENG IN 20:10 22-09-2022

C:\Users\kadiv\OneDrive\Documents\scan scheduling.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

scan scheduling.cpp

```
34          {
35              queue2[temp2]=temp;
36              temp2++;
37          }
38      }
39
40      for(i=0;i<temp1-1;i++)
41      {
42          for(j=i+1;j<temp1;j++)
43          {
44              if(queue1[i]>queue1[j])
45              {
46                  temp=queue1[i];
47                  queue1[i]=queue1[j];
48                  queue1[j]=temp;
49              }
50          }
51      }
52
53
54      for(i=0;i<temp2-1;i++)
55      {
56          for(j=i+1;j<temp2;j++)
57          {
58              if(queue2[i]<queue2[j])
59              {
60                  temp=queue2[i];
61                  queue2[i]=queue2[j];
62                  queue2[j]=temp;
63              }
64          }
65      }
66
67
68      for(i=1,i=0;i<temp1;i++,i++)
```

Line: 103 Col: 1 Sel: 0 Lines: 116 Length: 2204 Insert Done parsing in 0.078 seconds

ENG IN 20:10 22-09-2022 16

C:\Users\kadiv\OneDrive\Documents\scan scheduling.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

scan scheduling.cpp

```
68      for(i=1,j=0;j<temp1;i++,j++)
69      {
70          queue[i]=queue1[j];
71      }
72
73      queue[i]=maxrange;
74
75
76      {
77          queue[i]=queue2[j];
78      }
79
80      queue[i]=0;
81
82
83      queue[0]=headposition;
84
85      for(j=0; j<=n; j++)
86      {
87          difference = absoluteValue(queue[j+1]-queue[j]);
88
89
90          seek = seek + difference;
91
92
93          printf("Disk head moves from position %d to %d with Seek %d \n", queue[j], queue[j+1], difference);
94      }
95
96
97      averageSeekTime = seek/(float)n;
98
99
100     printf("Total Seek Time= %d\n", seek);
101     printf("Average Seek Time= %f\n", averageSeekTime);
102 }
```

Line: 68 Col: 1 Sel: 0 Lines: 116 Length: 2204 Insert Done parsing in 0.078 seconds

ENG IN 20:10 22-09-2022

C:\Users\kadiv\OneDrive\Documents\scan scheduling.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

scan scheduling.cpp

```
83      queue[0]=headposition;
84
85      for(j=0; j<=n; j++)
86      {
87          difference = absoluteValue(queue[j+1]-queue[j]);
88
89
90          seek = seek + difference;
91
92
93          printf("Disk head moves from position %d to %d with Seek %d \n", queue[j], queue[j+1], difference);
94      }
95
96
97      averageSeekTime = seek/(float)n;
98
99
100     printf("Total Seek Time= %d\n", seek);
101     printf("Average Seek Time= %f\n", averageSeekTime);
102 }
103
104
105 int absoluteValue(int x)
106 {
107     if(x>0)
108     {
109         return x;
110     }
111     else
112     {
113         return x*-1;
114     }
115 }
116
```

ne: 116 Col: 1 Sel: 0 Lines: 116 Length: 2204 Insert Done parsing in 0.078 seconds

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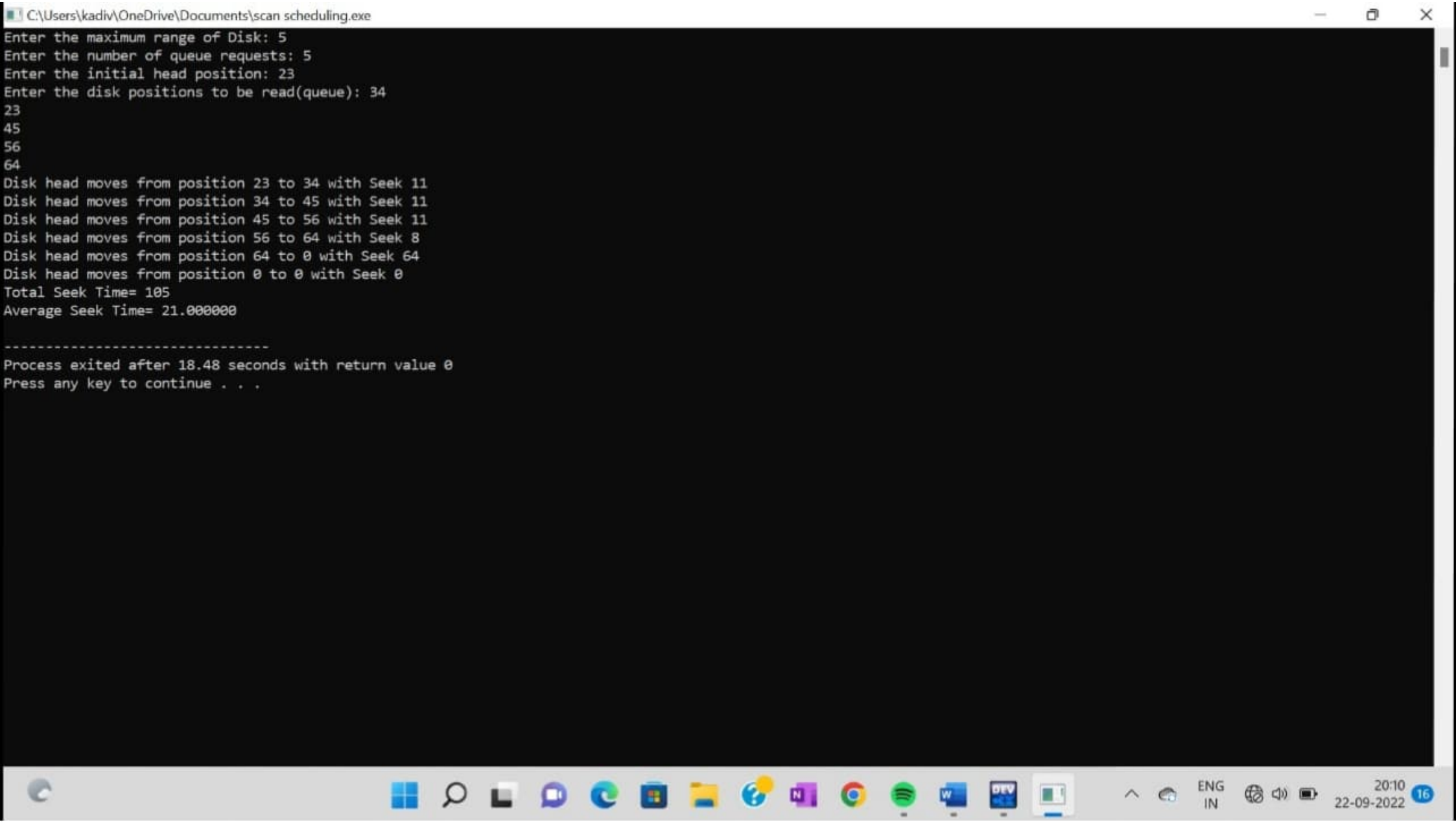
C:\Users\kadiv\OneDrive\Documents\scan scheduling.exe
Enter the maximum range of Disk: 5
Enter the number of queue requests: 5
Enter the initial head position: 23
Enter the disk positions to be read(queue): 34
23
45
56
64
Disk head moves from position 23 to 34 with Seek 11
Disk head moves from position 34 to 45 with Seek 11
Disk head moves from position 45 to 56 with Seek 11
Disk head moves from position 56 to 64 with Seek 8
Disk head moves from position 64 to 0 with Seek 64
Disk head moves from position 0 to 0 with Seek 0
Total Seek Time= 105
Average Seek Time= 21.000000

Process exited after 18.48 seconds with return value 0
Press any key to continue . . .
ENG
IN
20:10
22-09-2022
16