

Graphic Era Hill University, Dehradun (Answer  
Sheet for Online Examination Aug. 2021)  
Please tick (✓) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

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Course - BSC. IT

Branch - Dehradun

Semester - 2nd (END TERM)

Practical - operating system

Code - (PBI-202)



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Q2

Answer

Ashish Kumar  
Tomas

```
#include <stdio.h>

int absolute value (int);

void main
{
    int
    queue [25], n head position, i, j, k, seek = 0, maxrange
    difference, temp, queue 1 [20], queue
    2 [20], temp 1 = 0, temp 2 = 0;
    float average seek time;

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

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

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

    printf ("Enter the disk positions to be
    read (queue):");
```



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Ayhighw/c

Tomas

```
for (i = 1; i <= n; i++)
{
    scanf ("%d", &temp);
    If (temp > headposition)
    {
        queue 1 [temp 1] = temp;
        temp 1++;
    }
    else
    {
        queue 2 [temp 2] = temp;
        temp 2++;
    }
}

for (i = 0; i < temp 1 - 1; i++)
{
    for (j = i + 1; j < temp 1; j++)
    {
        if (queue 1 [i] > queue 1 [j])
        {
            temp = queue 1 [i];
            queue 1 [i] = queue 1 [j];
            queue 1 [j] = temp;
        }
    }
}
```

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High level  
format

```
3
3
3 for (i=1, j=0; j < temp1; i++, j++)
{
    queue[i] = queue1[j];
}
3 queue[i] = maxtemp1
for (i=temp1+2, j=0; j < temp2; i++, j++)
{
    queue[i] = queue2[j];
}
3
    average seek time = seek (float) n;
printf ("Total Seek time = %.1f\n", seek);
printf ("Average Seek time = %.1f\n", average
    seek time);
3 int absolute value (int x)
{
    if (x > 0)
    {
        return x;
    }
    else
    {
        return x*-1;
    }
}
```



/orkspace\scan.cpp - [Executing] - Dev-C++ 5.11

dit Search View Project Execute Tools AStyle Window Help



Classes

D:\Workspace\scan.exe

```
12 26 24 4 42 8 50
Enter initial head position
24
Enter total disk size
100
Enter the head movement direction for high 1 and for low 0
0
Total head movement is 74
-----
Process exited after 394 seconds with return value 0
Press any key to continue . . .
```

78  
79  
80

```
initial=RQ[i];
```

```
}
```