Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

Please tick (√) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

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(Answer Sheet for Online Examination Aug. 2021)

Please tick (√) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

Name: Himani Tanej Univ.Roll No. 2023058 Student ID 20052047
Date: 27/8/2021 Course: BSc.H Branch: I.T Sem.: 2nd Section: B
Subject Name: Operating (Backlog) Subject Code: ..... Page No. .....

Ans 2

```
# include <stdio.h>
int absolutevalue (int);
Void main()
{
int que [25], n, head position, i, j, K, seek = 0,
max range, diff, temp, queue1 [20], que 2 [20]
temp 1 = 0, temp 2 = 0;
float average seek time;
Print ("Enter the no. of queue requests:");
Scanf ("%d", &n);
Print "Enter the initial head position:");
Scanf "%d", &head position);
Print ("Enter the disk positions to be
read (queue):");
for (i = 1; i <= n; i++)
{
```

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Himani Taneja

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Please tick (√) your campus: (DEHRADUN/BHIMTAL/HALDWANI)

Name: Himani Taneja Univ.Roll No. 2013058 Student ID 20052047
Date: 17.12.21 Course: B.sc.IT Branch: IT Sem.: 2nd Section: B
Subject Name: operating (Practile) Subject Code: .... Page No. 2

```
Scanf ("%d" & temp);
if (temp > headposition)
{
 queue1[temp1] = temp;
 temp1++;
}
else
{
 queue 2 [temp2] = temp;
 temp2++;
}
}
for (i = 0; i < temp1 - 1; i++)
{
 for (j = i + 1; j < temp1; j++)
 { if (queue1[i] > queue1[j])
   {
    temp = queue1[i];
    queue1[i] = queue1[j];
    queue[j] = temp;
   }
 }
}
```

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Himani Taneja

```
for (i= 1 ; j- 0; i< temp1 ;i ;j++)
}
queue[i)= queue 1[j);
}
queue[i)= maxrange;
for (i= temp1 +2, i=0; i< temp2; i++, j++)
}
difference = absolutevalue (queue[j+1]- qui[i]);
  seek = seek + difference;
  Print("Disk head moves from position %
  d to %d with seek %d \n",
    queue[i), queue[i+1), difference);
}
average seek time = seek /(float)n;
Print("Total seek time = %d \n", seek);
```

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Name: Himani Taneja Univ.Roll No. 2023058 Student ID 20052047
Date: 27/8/21 Course: B.Sc.(H) Branch: I.T. Sem.: Section: B
Subject Name: Operating(Practile) Subject Code: Page No. 4

```
Printf("Average Seek Time = %.f\n", average
        seekTime);
}
int absolute value (int x)
{
 if (x>0)
 {
  return x;
 }
 else
 {
   return x*-1;
 }
}
```

Signature of Student
Himani Taneja