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GRAPHIC ERA HILL UNIVERCITY
                    CAMPUS - DEHRADUN
                           Subject - Operating System Practical
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                            Course !- BSC-I7
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                             Sem 1- 2
                             Sec 1- A
Subject code: PBJ-202
Question! 2.
   #include (st dio. h)
     intabsolute value (int);
     Void main ()
     queue [25], n, head position, ijs, k, sut = 0,
      max range;
     difference, temp, queue 1[20], queue 2[20], t emp=0, temp?=0;
     float average seek time;
    print f (" Enter the maximum range of Disk");
     Scarf 1" y. d; Emaxrange);
     print f la Enter the number of queue requests. 11.
     S can f 1"/.d", 2, n);
             I" Enter the number of queue initial head position.")
     print f
      Scanf ("1.d", & head positions);
            (" Enter the disk position to be read (queue):");
    print f
      for Li=1; i(= n; i+1)
       scan of 1"1.d", & temps;
       if (temp> head position)
```

```
que 2 (temp?] = temp
  for (i = 0, ictempl-1; i++)
   for (j= i+1; j < +empl: j++)
   if (queue 1(i) > queue 1(j7)
     temp= queue ([i];
      quem Ili]= quemelj],
     queue [ (j] = temp',
for (i= o; i(tempo-1; i++)
 bor (j=1+1; j (tempo; j++)
if (grun & [i] < queue & cj1)
    temp = queue 2 (i);
     queuesti] = queue 2017,
      queuel[j] = temp;
 for (i=1, j=0, j < temp1; i++ j++)
   que [i] = queue [îj];
```

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queue [i] = og max range;
 for (i = fem ) 1+2j = 0; j < tem p2; i++ j++)
   queue (i)= queue 2(j);
   queue (i)= 0',
    queue (0) = headposition;
    for (1=0; j <= n', j++)
 difference =
  absolute value (queue (j+1)- queue (j]);
    sur = suk + difference;
   print & ("Disk head moves from position 1. d to 1.d
 with seek y.d In",
     quem (j), quem citi), difference),
  average seek time = seek/ l/stoat sh',
  print [ " Total seek time= 1.d/n", seek);
  print 6 (" Average seek time= 1. / In"
     owerage seek time!
   int absolute value (int x)
   il (N>0)
     return x;
                                           har fred
48MPAI QUAD CAMERA
Shot by PRARHAM Nt-1,
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Enter the maximum range of Disk: 100
Enter the number of quaus requests: 7
Enter the initial head position: 24
Enter the disk positions to be read(queue): 12
26
24
42
8
50
Disk head moves from position 24 to 26 with Seek 2
Disk head moves from position 26 to 42 with Seek 16
Disk head moves from position 42 to 50 with Seek 8
Disk head moves from position 50 to 100 with Seek 50
Disk head moves from position 100 to 24 with Seek 76
Disk head moves from position 24 to 12 with Seek 12
Disk head moves from position 12 to B with Seek 4
Disk head moves from position 8 to 4 with Seek 4
Total Seek Time= 172
Average Seek Time= 24.571428
```

Press 197723 to exit console.