Name-Ankit Gusain Code PB1 - 202 University Rollno- 2023031 Student 1d - 20051074 Subject-Operating System Ankit Cousain Dote - 27/08/2021 Ques 2. Ans - # include < stdio.h > int absolutevalue (int); void main () int queue [25], n, headposition, i, j, K, Seek=0, maxiange, difference, temp, que 1 [20], que 2 [20], teme 1=0, temp2=0; Printf (" Enter the maximum range of Disk:"); Scanf ("%d", & maxsourge); Printf ("Enter the number of queue requests:"); Scanf ("1.d, &n); Printf ("Enter the initial head position:"); Scanf (" /d", & headposition); Printf ("Enter the disk positions to the be read (queue): "); For (i=1; Kn; i++) Antil Cuusein Scan f ("1.d", & fomp); if (temp > headposition)

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queue 1 [tempi] = temp;
     temp1++;
 else
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     queue 2 [temp2] = temp;
      temp 2++;
   y
For (i = 0; i< temp1-1; i++)
   For (j=i+1; j<temp1; j++)
   S. if (queue [i]> queue [[j])
        quere 1[i] = quene [[j];
        queue I [j] = temp;
 For (1=0; 1< temp2-1; 1++)
 { For (j=it1; j< temp2; j+t)
      ib (que 2 [i] > que 2 [i]) Artillembain
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: temp = queue 2[i];
     quere 2[i] = quere 2[j];
     Fireme Z[j] = temp;
For (i=1,j=0;j<temp1;i++,j++)
 queue [i] = queue I [j];
que [i] = maxinge;
 For (i = temp 1+2; = 0; ) < temp2; i++, j++)
  que [i] = queue 2[j];
que [i] = 0;
 queue (0) = headposition
  For (j=0; j<=n; j++)
    difference = absolutevalue (queue [j+1]-queue [j]);
     Seek = Seek + difference
 printf (" Total head movement = 1/.d/n; seek);
 gint absoluterable (int X)
                                   Arkit (musein
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if (x > 0)

Fretwin x;

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Fretwin X*-1;

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Enter the maximum range of Disk: 100 Enter the number of queue requests: 7 Enter the initial head position: 24 Enter the disk positions to be read (queue): 12 26 24 4 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 8 with Seek 4 Disk head moves from position 8 to 4 with Seek 4 Total Seek Time= 172 Average Seek Time= 24.571428

Press ENTER to exit console.