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student Id-20051079
None- Deepok Chauhan
                                      Code - PB1202
Roll no. - 2023049
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Subject - Operating System
97.
 # include < stdio. h>
  int absolute value (int);
  Void mais ()
   int queue [25], n, headposition, i, j, k, seek =0, marrange,
  difference, temp, avene 1[20], queue 2[20], tem p1 =0, temp 2=0;
  printf ("Enter the maximum range of Disk: ");
  Scarf ("1.d", & mattange);
  print (" Enter the number of queue requests: ");
  Scarf ("1.d", &n);
  printy (" Enter the initial head position: ");
   surf ("1.d", & headposition);
   perint ("Enter the disk positions to be read(queue): ");
   for (i=1; i<n; i++)
   scarf ("1. d", & temp);
    if (temp > headposition)
     quare 1[temp1] = temp;
     temp 1++;
     علاه
      queue 2[temp 2] = temp
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temp 2++;

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for (i=0; i < temp1-1; i++)
 bor(j=i+11; j<temp1; j++)
   if (queue Ili]> queue 1(j))
  5
   temp = queue 1[i];
    queue 1 [i] = queue [];
    queue 1[j] = temp;
for (i = 0; i < temp 2-1; i++)
 for (j=i+1; j<temp2;j++)
  if ( queire 2[i] < queue 2[j])
    temp = queue 2[i];
    queue 2[i] = queue 2[j];
    quoue 2[j]=temp;
   3
  for (i=1; j=0; *j < temp 1; i++, j++)
  queue [i] = queue [[j];
queue [i] = marrange;
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for (i = temp 1+2, j = 0; j < temp 2; i + +, j + +)
z
 queue (i)=0:
 queue [0] = headposition;
 for (j=0; j<1=n;j++)
1
  différence = absolute Value (que [j+1) - que (j]);
    seek = seek + difference;
 3
  prints ("Total head movement = 1.d \n"; Deck);
 3
  int absolute Value (int x)
   if(x>0)
  3
else
   3
```

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Enter the maximum range of Disk! 190 Enter the number of queue requests: 7 Enter the initial head position: 24 Enter the disk positions to be read(queue): 12 26 20 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