Cource - BSc. IT ID - 20041052 Exam - OS Roll no - 2023029 # Include States .h Page int absolute value(int); hold mainly Int queve [25], n, hea diposition, i, j, x, seek 20, maxrange, diffrence, temp, queue 1[20], queue 2[20], tempso, Prentf (" Entre the maximum range of disk;"); Scanf (" % od", & max range); Prentf (" Entre the number of queue requests: "); scanf (" olod", &n); Printf (" enter the initial head position:"); scanf (" % of) & nead position); Printf (" Enter the disk positions to be read queve):); for (12); i = n; i++) scanf ("old", & temp); if (temp) headposition) queve 1 [temp1] = temp; temp1++; queue 2 [temp 2] = temp; temp 2++;

```
JP-20041062 POU-2023028
for (120; 12 temp 1 - 1; 1++)
  for (j2 i+1; i < temp 1; j++)
     if queue 1 [i] > queue 1 [j])
      temp= queue 1[1]
       queve Ili] = queve Ili];
        que le 1[i]= temp;
    For (20; i < temp 2-1; i++)
     for (jzi+1; j< temp 2; j++)
       if (que ne 2 [i] < que ve 2 [j])
        temp z queue 2[i]
         queue 2[i] = queue 2[j];
         que ue 2 [j] = temp
            iz1, j20; j2 temp; i++j++)
     queue [i] 2 queue 1 [j];
```

Page (2)

```
ID -20041052 POU- 2023019 Page 3
None- Anil Kandpal
                  Sem-2nd
Cource - BSC, IT
for (iz temp] +2, j20, j < temp2; i++, j++)
    queveli] = queue 2[j];
                         to ment (1) Append
     queue [i] 20
     queue[0] 2 neadposition
     for(j=0; j(=n; j++)
      difference = absolute value (queue[j+1]-queue(j]);
      seek 2 seek + déférence;
             (" total nead movements old In", seek);
      int absolute ralve (intx)
      if (x so)
        petwin X
       else
        return X*=1;
```

Jul.

```
Enter the number of Requests

7
Enter the Requests sequence

12
26
24
4
4
22
8
50
Enter initial head position
24
Enter total disk size
100
Total head movement is 170
PS C:\Users\hp\c programming\operating system>
```