```
natural station in
                                                 page
int absolute value(int);
hold mainly
Ent queue [25], n, hea diposition, i, jit, seek 20, marrange,
diffrence, temp, queues[20], queue 2[20], temps of, tempso,
Prientf (" Entre the maximum range of disk : ");
scanf (" % od", & max range);
Prientf (" Entre the number of queue requests: ");
scanf (" old", &n);
Printf (" enter the initial head position:");
scanf (" % of ) & nead position);
Printf (" Enter the disk positions to be read queve):");
for (12); icon; it+)
 scanf ( "old", & temp);
 if (temp) headposition)
   queve 1 [temps] = temp;
   temps++;
   else
     queue 2 [temp 2] = temp;
       temp 2++;
```

```
for (120; i < temp 1 - 1; i++)
  for (j= i+1; i < temp 1; j++)
     if quewes [i]> quewes [i])
      temp= queues[1]
      queve Ili] = queve Ilj];
       que le 1[i] = temp;
    For (120; 1< temp 2-1; 1++)
     ForGzi+1; jctemp 2; j++)
       if (que ne 2[i] < quevez(j))
        temp = queue2[i]
        queue 2[i] = queue 2[j];
        que ue 2[j]= temp
       for iz1, j20; j2 temp; i++j++)
     queue [i] = queues [j];
     queue [1] = maxrange
```

```
For (i2 temp) +2, j20, j < temp2; i++, j++)
    queneli] = queue 26j];
    queue [i] 20
     queue[0] 2 neadposition
     For(j=0; j(=n; j++)
      difference = absolute value (queue [j+1] - queue (j);
      seek 2 seek + difference;
     Print f (" total nead movement= olod In", seek);
     int absolute ralve (int x)
      if (x so)
        return X ;
       else
        return x = 1;
```

```
OSZ_SCHILUTSK & ' TI (St) & ' (OSZ_SCHILUTSK )
Enter the number of Requests
Enter the Requests sequence
12
26
24
4
42
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>
```