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Graphic Era Hill University Dehradon
(Answer Sheet for Online Examination Aug 2021)
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Name Ayush Nautiyal Univ. Roll No 2023 042 Student 1D-20051046

Date 27-8-2021 Course BSC IT Branch Dehradun Sem II Section B

Subject Name Operating System Subject Code Page No
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GI Ans
      # include < stdid.h2
      int main()
       Printf ("Intt /t/t Memory
       Managment" - Worst Fit");
      inti ij nblocks , nfiles, temp, top = 0;
      int fragcio), blocks- att [10], file-att [10];
      Printf ("IN Enter the Total Number "of Blocks:");
     Scanf (" " d" & nblocks);
     Printf ("Enter the Total Number" of Files: ");
     Scanf ("16d", & nfiles);
     Printf("In Enter the Size of the "Blocks: In");
     for (i=0; i < nblocks; i++)
     Printf ("Black Na%.d: 1+", i+1);
    Scanf (" Y.d" + & Blacks [i]);
    Printf ("Enter the size of the "Files: \n");
   for (i = o; i < h files: i++)
    Printf ("Fileg No. 70d: 1t", 1 +1);
    Scanf (" 1/00", & files [i]);
   for (i= 0; i < n (i leq; i++)
   for (j = 03 j < n blocks; j++)
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if (block - arr GJ!=1)
temb = blocks Cj) - Files (i);
if (temb > = 0)
eif (tob < temp)
Efile - art CiD = ji
  top = tempi
  frag Cid =tobi
   block-arr Cfile-arr (i))=1;
   Printf ("Infiles Number It file
  Size It" Block Number It Block
  Size It Fragment")"
  for (i= 0; i < nfileg; i++)
    Print ("\n % b) t|+"/ d|t|+"/ d|t|t"/ d|t|t"/ d|t|t"/ d'i, files (1),
         File-art (i) 1 blocks (file-art (i)), frag (i));
    printf ("\h");
    return Oi
```

```
Ottock

Block No. 3 7

Enter the Size of the files:

File No: 1: 1

File No : 2: 4

File Nom

File Size Block Nom

Block Size

7

1

4

6
```

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Subject Name Operating System Subject Code
                                            Page No
    # include < stdid.h)
     Int absolute value (int);
     Void main () {
      int queur (25), h. heapsitioni, j, k seek = 0 magrange;
      int dillerence temp queve (20) queve 2 (20), temp1 = 0 temp2=0;
      Printf ("Enter the maximum range of disk");
      Scanf ("/.d"& Maxmange),
      Printf ("Elieter the number of quev reguest").
     Scan f(11 9 .d" & h).
     Printf (" Enter the resminitial head position:");
     Scan fil"/1 d" & head bosition);
     Printf (" Enter the disk bositions to be read (queve ):1);
      Scanf (" "/vd" & temb);
      if (temp > headbosidion)
       of queue 1 Etemps = temp:
      temb 1++;
      else &
         2 veve 2 (temp) = temp;
         temb 2++i
      for (i= o'il < temp- i', i++)
       for (i) = i++ j <+emb 1 : i++ ) {
        if queur (i) >queor cy))q
                                                    Ayush
               QUEUP (i) = queue (i);
```

```
2000 1 CtD = temp
18×3
for (i= 1, 1 =0, 1 < temb : 1++, 9++) 3
        200000 = 20000 CD:
    queve Cis = xon max hange ,
  for (i-temb+2, j=0; y <+emb 2; i++, y++)&
      queve (i) = queve cy);
      2 UEUR (1) =0
       queve (O) = head boxitloh "
    for (i=0, y < his 1++){
         dif Cevence ab solotevalor (queve (j++)- queve (i) ];
     Seek = Seek + di ff evence;
     prints ("Disk head move from position yed to yed
    with seek "idh" queve (i) que (j+1) dill ence);
    3 printf total seek time = " d/h", seek
   int absulante (intr)
   8. 10(x)01.8
       return
      clse
    ¿ retorn x * -1;
```

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output Enter the many range of Disk So 11 Mumber of queue requests: 7 11 n initial head Posit Ion. 24 11 11 Disk Positions to be read: 122624 4 42,850 Disk head moves from Position 24 to 26with Sede 2 11 11 11 26 +0 42 11 11 16 [ 11 11 11 11 42 +0 50 11 11 11 11 11 11 S0+0 S0 11 " 111 11 11 11 50 to 24 11 11 11 11 24 +0 12 11 12 11 12 to 8 min 11 & 11 1 8 +0 4 ,11, 4 total seel Time = 20772 Ayosh