Subject a Operating System. Name Ligershu Ungd Roll to a 2 bost 1070 Correct - Will Acmented and and. FIELDE SPIEL 4n0-# medude < stdit. h> Heep {100000], Index[100001], Position[10000], Size=0; unsigned int Temp [100001]; Temp 1[100001]; Arr- iime [100001], Cook-sime [100001], Nun; Void Mary (int Low, int Mid, int High) int := Low, j = Mid + 1, K = 0; while Cir= mid ODjr= High). Esy (Aun-Time Ci] <= Am-Time [j]) Gemp[K] = Arr\_ Pime (i); Gemp I Cir] = look\_ Pime [i]; Gemp[K] = An-Sime[j]; Gemp[K] = Cook\_ Sime[j];

```
if (ic=Md)
                                                                                                                                                                                                    CONTRACTOR OF THE PARTY OF THE 
                                                                                                                                                                                                             A SERVICE
  for (1=1; 1 <= Mid; 1++)
                                                                                                                                                                              4.311, 131116
   [ serup (K) = Arr- sime [1]:
        Temps (11) = 60 K - Time [1];
          K++; 1 Deside Monor Freeking monor peter 1 10000 pg
                                                                                Theore I the Free Freeder I have been been to
                ehe if (j = High)
                                                                                        (A) He has like her her her her her
                for (1=j; 1 <= High! 1++}
                                                                                                                                       { Semp[K] = Arr-Sime [1];
                                                                                                                                 (Hill GENT AND MARKET
           Pemp 1[K]: 60/4- sime [1]; $
                                                                                                                             LINI WAS BEEN ROLL BURNERS
                                                                                                                     LI DENIE HOUSE EN HOUSE
              for [i= low; it= High; i++)
                      Aw-sime [i] = semp [K];
                     Cook- sime [i] = Temp) [X];
                void divide (int low, ind Migh)
```

```
and Mid a (bost High) /?
divide [ Low, Mid);

Merge [ Low, Mid, VHigh);

Merge [ Low, Mid, VHigh);
 Void inset (int Node, ansigned int Velue)
  il (Position (Mode) == 0)
   Heap [++ size] = Value;
  index [ Size ] = Node;
  Postion[Node] = Noc;
     Heep [ Position [ Node]] = Value;
       s. Position (Mode];
       rehile (5!=1).
       EffHeap [SIR] > Heap (S))
         { not t = Heap [5/2];
Heap [5/2] = Heap [5];
```

```
t = Index (5/2);
   Endex [3]= Index [3];
   Index [s]= 7;
   Position [Index [3/2]]= 5/2;
   Position [ Index [ 3]= s;
  doc.
  break;
  8=3/2:
     Exted_Min()
  Ind N= Index (17;
   But d=1;
  4 Print + (%) n", Heap [1]);
     Position [N]=-1;
     Index [1] = Index [dize];
     Position [ Index [dize]] = 1;
                                        Jak John oding
     Meap [1] = Heap [ Size -- ];
     while (1)
      If (Hap [ d+ 2] + Hap [ d] & & & 2 + = Size!
  Hugh [ 6 * 2+1] ( Hugh [ 6] $ $ 2+1 (= Sne)
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```
BANKER WAR FREE FREE FREE
int t = Hup[7];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Head [7] = Heap [8];
     Hup (1) = t;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (111, 111) A . O. A. A.
                       t = inda [17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THE RESERVE VIEW OF THE PARTY O
                                      Index [7] = Index[S];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CE TUNE DE MAN
                                     Irdex [s]=t;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ( I FE TO THE TOTAL OF THE TOTA
                             Position [Index[T]]=1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chief A. Charles while
                         Maition [Index [8]]=d;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Commendation of the state of th
                       Void int (int N)
            for (1=1:12= NH)
                                              Position [i]=0;
                                              INDex (13 =0;
                               Heap[1]= 10000000001;
```

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```
} jut A. S. (-1. 1-1;
 by by Doit - Pine = 0, Fine =0;
Sonf ("%), 4 Num);
11 init (N);
for (i= 0; + Nam; i++).
Sanflugovo/ou", & Am- sime [1], & bok- Time[1]);
divide (0, Nun-1);
for (i= Nrm: i) = 1; i-).
1 Aw - Time (i) = Aw - Sine [i-1);
   inscrt (1, 6014- 1, m1(1));
     While (iz=Num& Am- sime [i]== Am-sim/[i]].
      Importli book - Pine [1]):
 Dhi le (dize!=0).
 1 int 1= [x tod - Min ();
  If (Pm, ) Am - Mme [1]).
 1 Hait sime + = Par Am - Time [1] + Work - Time [1];
   Time + = Gok - Pine [1];
  11/med+ ("% 10 % d \", 1, fime, Wait - fime);
```

```
While (ix = Num & D Am- Sime (i) x = Filme).

Import (i, book_ Sine (i));

i++;
3/1==: 1881c= Nun) 1/10 job 18 before cuer-tim1.
Insurt (i, 60/2- ]; me (i);;
i++;
21 (1= 24 i 2= Num) 11 Nojobid before.com-tim.
 1 insert [ilook - Sime [i]]):
  While (it = Num 4 & Am- Sime (i) == Am- Sime (17).
   iment (i. look- sime (i)];
  Wait- fine = Wait- Sing/ Num;
   Print f ("611d", Wait - Time);
   11 System (" Paux (");
```

```
191 -
                Insert(i,Cook_Time[i]);
192
                i++;
193
194
                if(I==i&&i<=Num)//No job is before curr_time
195
196 -
                  Insert(i,Cook_Time[i]);
197
198
199
                while(i <= Num&&Arr_Time[i] == Arr_Time[I])
200
201 -
                 Insert(i,Cook_Time[i]);
202
                 i++;
203
204
205
206
         Wait_Time=Wait_Time/Num;
207
          printf("%lld", Wait_Time);
208
        // system("pause");
209
```