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Q-Write a program in C to impliment FCFS
 mchide (stdio. h)
 int main ()
int in, bt [20], wt [20], tat [20], aww = 0, awtat = 0,1, j:
Printf ("Enter total nurses number of processes (maximum 20):")
Scanf (").d", &n);
prints ("In Enter process Burst Time In");
 for (i=0; 12n; i++) &
  prints("P[1/d]:"1+1);
  Scanf (" ", d", 2 b + [i]);
  W+[0]=0;
 fon(i=1', i <n; i++)
  2 WT[i] = 0;
  for(j=0; j L1; j++)
         WHEI] + = bt[j];
 print ( In Brocess ) + 1 + Burst Time / twaiting Time | + Turn
 for (i=0; i < n; i++)
                                                round limil);
  TATED = BIED+ WIEI];
   avilt + = WI [i];
  av tat + = tat [ ; ? ;
  prints("\nP[".d]\+\+\/.d\+\/.a\+\\id",i+1,
  avert/=i;
                                                WtCi], tat[i]);
```

prints ("In In Average age waiting time".", autility prints ("In Average Turnarourd Time: ").d", awtat);

Thought from waiting time Turn around time frocesses But the time waiting time Turn around time

Process Buret time waiting time Turnround time

Process Buret time waiting time Turnround time

Process 3 24 27

Process 3 24 27

Process 3 27 30

Average waiting Time: 17

Average Turnaround time: 127

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Q-Write a program in c to impliment $8FS.
# include (stdio. h)
 int main (1
 int bt[20], P[20], W+[20], tat[20], 1, 1, n, to tal = 0, Pos, temps
 fleat ang - w+, ang, tat;
 brind ("Enter number of process:");
  sanf ("1.d",2n);
  print/("n Enter Burst Time: n");
 Jan li= 0; izn; i++)
  printy ("P"/d: ";i+1);
 Scanf (" 1.d " 2 b+ [i]);
 PLIJ=1+1;
 P[i]=1+1;
  for (i=0; i < n; i++)
    POS = 1;
  for (j=i+j; j<n; j++)
   ijlb+[j]Lb+[fas])
    Pas = j;
 temp = bt[i];
  bt(1) = bt[pos];
  bt [pas] = temp;
  temp = P[i];
```

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HID- HI [ POS);
bot [pos] = tery;
temp = P[1);
PED = PEPasi;
P[Pas] temp;
w+ [0] = 0;
for 0 = 1; i ≤ n; i++1
 WHEIJ = 0;
for (j=0; $ < 1; j++)
 WHEID += ATEX);
 total + WIDI;
ang -w+ = (float) total In;
total=0;
Printf ("n Procest Burst Time twaiting Turnaraind Time");
fon(i=0; i(n; i++)
tat [i] = b+[i] + U+[i];
total + = tatei;
Prints ("np', di ") dt 1/dtlf "/ d", p[i] 16t[i], w+ [i]; tut [i])
ang - tat = (float) tatal /n;
 Prints ("nn Avarage vaiting time = "/J", avg-wt);
 prints ("n Av enge turnuround Time = 1. In", ang -tat);
```

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tymp [1] = temp [1] - quart;
sun = sum + quant .
 if (temp[i) = = 0 e2 count = = = 1)
   printy ("In Brows No[1/d] (+ (+ 1/d)+1+1+1 //d)+1+1+1.
          "1. de", i+1, bt[]; sun-at [1]; sun - at [] - b+ [1]);
           W+ = W+ + swn -at [i] - b+[i];
           # = # + Swy-at [i];
     if (1 == NOP -1)
    else if lat (i+1) L=Sum)
```

Output Total number of processes in the system :2 Enter the arrival and Burst time of the Process [1] Enth Buset Him : 5 Enter the arrival and Burst time the of the Brocess[2] Enter Butest time: 4

Avois Emmanum fine 7.400000 Average waiting time - 4.00000 Process Burkt Process time waiting Hind won around Hiny Total number of processes in the system: 2

Enter the Arrival and Burst time of the Process [1]

Enter Arrival time: 0

Enter the arrival and Burst time the of the Process[2]

Enter the arrival and Burst time the of the Process[2]

Enter Burst time: 4

```
& Write a program in C to impliment P.S.
   # include ( stollo 4)
    void main()
   int x, n, P[10], PP[10] w [10], I[10], awt, atal, i;
    Sund ("Enter the number of proces:");
    for f ("In Enter process: time priorities In");
    for (i=0; 12n; i++/
      prints ("In Process no "/d: ", i+1);
      Sang (" ". d", & P+ [i] ) 2 PP[i]);
      PLIJ = 1+1
      for ( min gray 1++)
        for (int j=1+1; j(n; j++)
       2 if (PPG) LPPED)
        PPEIJ = PP [j];
           PP IJ = X;
            x = pt [i];
             P+ [i] = P+ [j];
             PAEJJ = x;
              X = P [i];
               PEID=PEJ);
               P[j]=0;
 W[0] = 0
X (10) = P+ [0];
```

```
atat = +[0]
gan (i=1; iLn; i++)
   WED=+E1-1];
   abt += WEID;
   (CIJ+9+CIJW = CIJ+
   atat +=+ [1);
 Printf("In In gob ) + Burst Time + wait Time + Turn around the Priority
 fon (i=0; 1Ln; i++)
    prints ("Mn 1.d 1 1 1 t 1.d 1 + 1.d 1 + 1.d 1 + 1.d 1 m", PLI), Pti), VII tis
                                      PP EID)
     awt/=n
     atat 1= n!
  Irinto ("In Avange wait Time: "Id In", aut);
   Prints ("In Average Turn around Time: "I'd In", atat );
   getch ()
  autput
    Enter the number of process! 4
      Exter process : time priorities
     Bt wt
Average wait time: 8
Average Turn Around Hore: 12
```

```
Q- Write a program in C to impliment RR Scheduling
# malule Listelio . h)
 void main ()
    int 1, NOP, sum = 0, count = 0, y, quant, w = 0, tat = 0, at [10], temp
        float ang-w+, ang-tat;
         printf ("Total number of process in the system: ");
         g = NOP; & NOP);
         for G = 0; ILNOP; i++1
           Prints ("In Enter the Arrival and Burst time of the Croces [1.d] In; int
            Prints ("Enter arrival time: \ +");
            sand ("1.d", & at [1]);
           printf ("In Exter Burst find: Lt");
            sang (" 1.d", 2 b+ [i]);
            tample) - bt [i);
         "Printf ("Enter the time Quantum for the process", \1");
          sany ("1.d , e quant);
          Prints ("In Process NOIT) & Burst Time 11 14 TAT 1111 waiting
           for (sun= 03 :0 = 0; y!=0;)
            if (terp ci) L= quant 22 temp (i) > 0
            sum = sun + temp [i);
             temp [i] = 0;
             Lount - 1;
              else if (templi) 30)
```