```
Subject - Operaling system.
Name-Bharna
Cowell-BSC IT
Std 1d - 20052005
&2 Problem Statement & Solution
# include <stolio.h>
int-main ()
int a[10], kt[10], end Zime, i, smallest;
int remain =0, m, time, sum_wait =0, sum_trounaround =0;
print ("Eatel number of processes: ");
Scary (" % d', & n);
for (i=0; i<n; i++)
   prient ("Enter arrival time for process P?od:", i+1);
   Scanj (" Pod!, Lat(i));
   printje Enter kunst tiene for process P?ad: ", i+1);
   Scary (' % d', & bt(i));
  etti) = bt[i];
perints ("Into Perocess et 1 Tuenaround Time Iwailing Time Into);
 et [9] = 9999;
for (time =0; remain!=n; time ++)
  Smallest = 9;
```

```
for (i=0; i<n; i++)
         € if (ad[i) <= time && set[i) < set[smallest & & set[i] >0)
       smallest =i;
     ent [smallest] --;
    of (ort [smallest] == 0)
       remain ++;
      end Time = time +1;
   perint ("In P[%d) It I It & d It I It %d", Smallest +1, cerd time - at [smallest), end time - bt (smallest) - at [smallest));
 Sum-wait += end Zime - let [smallest]-at[smallest];
 Sum-trousacround += end Time - al [smallest];
perint ("In In Average waiting time = % In", sum_wait x
point (" in Average Turnaround time = Pof", Sum_turnaround + 1.015);
 setumo;
```



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3
                                0n1
                   Code, Compile,
  Write your code in this editor
```

input **✓** ✓ ✓

```
Enter no of Processes : 5
Enter arrival time for Process P1 : 2
Enter burst time for Process P1 :
Enter arrival time for Process P2 : 1
Enter burst time for Process P2 : 5
Enter arrival time for Process P3 : 4
Enter burst time for Process P3 : 1
Enter arrival time for Process P4 : 0
Enter burst time for Process P4 : 6
Enter arrival time for Process P5 : 2
Enter burst time for Process P5 : 3
```

Process |Turnaround Time| Waiting Tim

P[3]	1	1	1	O
P[5]	1	4	1	1
P[2]	1	9	1	4
P[4]	1	15	1	9
P[1]	Ī	2.3	1	13

Average waiting time = 5.400000 Average Turnaround time = 10.400000

... Program finished with exit code 0 Press ENTER to exit console.