```
#include<stdio.h>
void main()
{
int at[10],bt[10],rt[10],completiont,i,smallest;
int remain=0,n,time;
float sum_wait,sum_turnaround;
printf("\n Enter the number of processes=");
scanf("%d",&n);
        for(i=0;i<n;i++)
        {
        printf("Enter the arrival time for P%d=",i+1);
        scanf("%d",&at[i]);
        printf("Enter the burst time for P%d=",i+1);
        scanf("%d",&bt[i]);
        rt[i]=bt[i];
        }
printf("Given snapshot of execution is");
printf("\nProcess|Arrival|Burst");
for(i=0;i<n;i++)
{
printf("\nP[%d]|\t %d|\t %d",i+1,at[i],bt[i]);
}

printf("\n\n Process|Turnaround Time|Waiting Time");
bt[9]=1000;
        for(time=0;remain!=n;time++)
        {
      smallest=9;
      for(i=0;i<n;i++)
                {
                if(bt[i]<bt[smallest] && at[i]<=time &&rt[i])
                        {
                        smallest=i;
                        }
                }
rt[smallest]--;
if(rt[smallest]==0)
{
remain++;
completiont=time+1;
printf("\nP[%d]|\t%d|\t%d",smallest+1,completiont-at
[smallest],completiont-bt[smallest]-at[smallest]);
sum_wait=sum_wait+completiont-bt[smallest]-at[smallest];
sum_turnaround=sum_turnaround+completiont-at[smallest];
}
        }
printf("\naveradge waiting time is %f",sum_wait/n);
printf("\naveradge Turnaround time is %f",sum_turnaround/n);

}
```

OUTPUT:-

```
 Enter the number of processes=4
Enter the arrival time for P1=0
Enter the burst time for P1=2
Enter the arrival time for P2=1
Enter the burst time for P2=4
Enter the arrival time for P3=2
Enter the burst time for P3=6
Enter the arrival time for P4=3
Enter the burst time for P4=3
Given snapshot of execution is
Process|Arrival|Burst
P[1]|    0|      2
P[2]|    1|      4
P[3]|    2|      6
P[4]|    3|      3

 Process|Turnaround Time|Waiting Time
P[1]|   2|      0
P[4]|   3|      0
P[2]|   8|      4
P[3]|   13|     7
averadge waiting time is 2.750000
averadge Turnaround time is 6.500000

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