```
#include<stdio.h>
typedef struct Process
{
  int pid;
  int AT;
  int BT;
  int CT;
  int TAT;
  int WT;
}FC;
FC P[100],temp;
int n;
double sum1=0.0,sum2=0.0;
int main()
{
  printf("Enter the number of processors:\n");
  scanf("%d",&n);
  printf("Enter the PID,Arrival time and burst time for each process\n");
  for(int i=0;i<n;i++)</pre>
  {
    printf("%d.",i+1);
    scanf("%d%d%d",&P[i].pid,&P[i].AT,&P[i].BT);
  }
  for(int i=0;i<n;i++)
  {
    for(int j=i+1;j<n;j++)
      if(P[i].AT>P[j].AT)
      {
         temp=P[i];
         P[i]=P[j];
```

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P[j]=temp;
    }
  }
}
for(int i=0;i<n;i++)
{
  if(P[i].AT==0)
  {
    P[i].CT=P[i].BT;
  }
  else
  {
    if(P[i].AT<P[i-1].CT)
      P[i].CT=P[i-1].CT+P[i].BT;
    }
    else
    {
       P[i].CT = P[i-1].CT + (P[i].AT - P[i-1].CT) + P[i].BT;
    }
  }
}
for(int i=0;i<n;i++)
  P[i].TAT=P[i].CT-P[i].AT;
}
for(int i=0;i<n;i++)
  P[i].WT=P[i].TAT-P[i].BT;
printf("PID\tAT\tBT\tCT\tTAT\tWT\n");
```

```
for(int i=0;i<n;i++)
{
    printf("%d\t%d\t%d\t%d\t%d\t%d\n",P[i].pid,P[i].AT,P[i].BT,P[i].CT,P[i].TAT,P[i].WT);
}
for(int i=0;i<n;i++)
{
    sum1+=P[i].TAT;
    sum2+=P[i].WT;
}
double avg1=0.0,avg2=0.0;
avg1=sum1/double(n);
avg2=sum2/double(n);
printf("Average of TAT is %1fms\n",avg1);
printf("Average of WT is %1fms",avg2);
}</pre>
```