Coding C

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RUN MEN

```c
#include<stdio.h>
int main()
{
int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
float avg_wt,avg_tat;
printf("Enter number of process:");
scanf("%d",&n);

printf("nEnter Burst Time:n");
for(i=0;i<n;i++)
{
printf("p%d:",i+1);
scanf("%d",&bt[i]);
p[i]=i+1;
}
for(i=0;i<n;i++)
{
pos=i;
for(j=i+1;j<n;j++)
{
if(bt[j]<bt[pos])
pos=j;
}

temp=bt[i];
bt[i]=bt[pos];
bt[pos]=temp;

temp=p[i];
p[i]=p[pos];
p[pos]=temp;
}

wt[0]=0;


for(i=1;i<n;i++)
{
wt[i]=0;
for(j=0;j<i;j++)
wt[i]+=bt[j];

total+=wt[i];
}

avg_wt=(float)total/n;
total=0;

printf("nProcesst Burst Time tWaiting TimetTurnaround Time");
for(i=0;i<n;i++)
{
tat[i]=bt[i]+wt[i];
total+=tat[i];
printf("np%dtt %dtt %dttt%d",p[i],bt[i],wt[i],tat[i]);
}

avg_tat=(float)total/n;
printf("nnAverage Waiting Time=%f",avg_wt);
printf("nAverage Turnaround Time=%fn",avg_tat);
}
```

Compile Result

```
Enter number of process:3
nEnter Burst Time:np1:3
p2:6
p3:9
nProcesst Burst Time tWaiting TimetTurnaround
 Timenp1tt 3tt 0ttt3np2tt 6tt 3ttt9np3tt 9tt
9ttt18nnAverage Waiting Time=4.000000nAverage
 Turnaround Time=10.000000n
[Process completed - press Enter]
```