

```

#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;

}

//sorting of burst times

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;

```

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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("\nProcess\tBurst Time \tWaiting Time\tTurnaround Time");

for(i=0;i<n;i++)
{
tat[i]=bt[i]+wt[i];
total+=tat[i];

printf("\np%d\t\t %d\t\t %d\t\t %d",p[i],bt[i],wt[i],tat[i]);

}

avg_tat=(float)total/n;

printf("\n\nAverage Waiting Time=%f",avg_wt);

printf("\n\nAverage Turnaround Time=%f\n",avg_tat);

}

```