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```
#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;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 Timet
        Turnaround Time");
for (i=0; i<n; i++)
{
ta t[i] = bt[i] + wt[i];
total += tat[i];
printf("%p%d\t%d\t%d\t%d", P[i], bt[i],
        wt[i], tat[i]);
}
avg_tat = (float) total/n;
total = 0;
```

```
avg_wt = (float) total / n;
total = 0;
printf("\n Process\t Burst Time\t Waiting
        Time\t Turnaround Time");
for (i = 0; i < n; i++)
{
tat[i] = bt[i] + wt[i];
total += tat[i];
printf("\n%d\t%d\t%d\t%d", p[i], bt[i],
        wt[i], tat[i]);
}
avg_tat = (float) total / n;
printf("\n\n Average Waiting Time = %f", avg_wt);
printf("\n Average Turnaround Time = %f\n", avg_
        tat);
}
```

```
Enter number of process:4
nEnter Burst Time:np1:10
p2:9
p3:1
p4:4
nProcesst Burst Time tWaiting Time
tTurnaround Timenp3tt 1tt 0ttt1np4
tt 4tt 1ttt5np2tt 9tt 5ttt14np1tt
10tt 14ttt24nnAverage Waiting Time
=5.000000nAverage Turnaround Time=
11.000000n

...Program finished with exit code
```