C:\Users\hp\Documents\shortest job first in c program.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

shortest job first in c program.cpp

```c
#include<stdio.h>
int main()
{
    int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,totalT=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;
```

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```
26              temp=bt[i];
27              bt[i]=bt[pos];
28              bt[pos]=temp;
29
30              temp=p[i];
31              p[i]=p[pos];
32              p[pos]=temp;
33          }
34
35      wt[0]=0;
36
37      for(i=1;i<n;i++)
38      {
39          wt[i]=0;
40          for(j=0;j<i;j++)
41
42              wt[i]+=bt[j];
43
44
45          total+=wt[i];
46      }
47
48
49      avg_wt=(float)total/n;
50
51      printf("\nProcess\t Burst Time \tWaiting Time\tTurnaround Time");
52      for(i=0;i<n;i++)
53      {
54
55          tat[i]=bt[i]+wt[i];
56
57          totalT+=tat[i];
58          printf("\np%d\t\t %d\t\t %d\t\t\t%d",p[i],bt[i],wt[i],tat[i]);
59      }
60
61      avg_tat=(float)totalT/n;
62      printf("\n\nAverage Waiting Time=%f",avg_wt);
63      printf("\nAverage Turnaround Time=%f",avg_tat);
64  }
```

Compiler   Resources   Compile Log   Debug   Find Results

```
Enter number of process: 4
Enter Burst Time:
P1: 6
P2: 7
P3:
8
P4: 3
P       BT      WT      TAT
P4      3       0       3
P1      6       3       9
P2      7       9       16
P3      8       16      24
Average Waiting Time= 7.000000
Average Turnaround Time= 13.000000
-----------------------------------
Process exited after 18.81 seconds with return value 0
Press any key to continue . . .
```