

C:\Users\Diresh\Documents\kou.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

Project Classes Debug kk.cpp ko.cpp kou.cpp

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int bt[20],p[20],wt[20],tat[20],pr[20],i,j,n,total=0,pos,temp,avg_wt,avg_tat;
6     printf("Enter Total Number of Process:");
7     scanf("%d",&n);
8
9     printf("\nEnter Burst Time and Priority\n");
10    for(i=0;i<n;i++)
11    {
12        printf("\nP[%d]\n",i+1);
13        printf("Burst Time:");
14        scanf("%d",&bt[i]);
15        printf("Priority:");
16        scanf("%d",&pr[i]);
17        p[i]=i+1; //contains process number
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Diresh\Documents\kou.exe
- Output Size: 129.7705078125 KiB
- Compilation Time: 1.92s

Activate Windows  
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Line: 55 Col: 48 Sel: 0 Lines: 71 Length: 1697 Insert Done parsing in 0.015 seconds

Type here to search

DEV C++ 5.11

C:\Users\Hitesh\Documents\kou.cpp - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

Project Classes Debug kk.cpp ko.cpp kou.cpp

```
17     p[i]=i+1;           //contains process number
18 }
19
20 //sorting burst time, priority and process number in ascending order using selection sort
21 for(i=0;i<n;i++)
22 {
23     pos=i;
24     for(j=i+1;j<n;j++)
25     {
26         if(pr[j]<pr[pos])
27             pos=j;
28     }
29
30     temp=pr[i];
31     pr[i]=pr[pos];
32     pr[pos]=temp;
33 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Hitesh\Documents\kou.exe
- Output Size: 129.7705078125 KiB
- Compilation Time: 1.92s
```

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug kk.cpp ko.cpp kou.cpp

```
34     temp=bt[i];
35     bt[i]=bt[pos];
36     bt[pos]=temp;
37
38     temp=p[i];
39     p[i]=p[pos];
40     p[pos]=temp;
41 }
42
43 wt[0]=0; //waiting time for first process is zero
44
45 //calculate waiting time
46 for(i=1;i<n;i++)
47 {
48     wt[i]=0;
49     for(j=0;j<i;j++)
50         wt[i]+=bt[j];
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

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- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\Diresh\Documents\kou.exe  
- Output Size: 129.7705078125 KiB  
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C:\Users\Diresh\Documents\kou.cpp - Dev-C++ 5.11

```
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(globals)
Project Classes Debug kk.cpp ko.cpp kou.cpp
51     total+=wt[i];
52 }
53
54 avg_wt=total/n;      //average waiting time
55 total=0;
56
57 printf("\nProcess\t    Burst Time      \tWaiting Time\tTurnaround Time");
58 for(i=0;i<n;i++)
59 {
60     tat[i]=bt[i]+wt[i];      //calculate turnaround time
61     total+=tat[i];
62     printf("\nP[%d]\t\t %d\t\t %d\t\t %d",p[i],bt[i],wt[i],tat[i]);
63 }
64
65 avg_tat=total/n;      //average turnaround time
66 printf("\n\nAverage Waiting Time=%d",avg_wt);
67 public int __cdecl printf (const char * __restrict __Format, ...);
```

Compiler Resources Compile Log

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\Diresh\Documents\kou.exe  
- Output Size: 129.7705078125 KiB  
- Compilation Time: 1.92s

Activate Windows  
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10:30 AM

A screenshot of a Windows operating system desktop. At the top, there is a taskbar with several pinned icons. Below the taskbar is a window titled "TDM-GCC 4.9.2 64-bit Release". The window contains a code editor with C++ code for calculating average waiting and turnaround times. The code uses arrays p[], bt[], wt[], and tat[] to store process IDs, burst times, waiting times, and turnaround times respectively. It includes printf statements to display the results in a tabular format. The code editor has tabs for "kk.cpp", "ko.cpp", and "kou.cpp", with "kou.cpp" currently selected. Below the code editor is a "Compiler" window showing compilation results. The results indicate 0 errors and 0 warnings, with the output filename being "C:\Users\Di...\\kou.exe". The taskbar also shows the date and time as "10:30 AM 9/19/2022".

```
55     avg_wt=total/n;           //average waiting time
56     total=0;
57
58     printf("\nProcess\t    Burst Time\t Waiting Time\tTurnaround Time");
59     for(i=0;i<n;i++)
60     {
61         tat[i]=bt[i]+wt[i];      //calculate turnaround time
62         total+=tat[i];
63         printf("\nP[%d]\t\t %d\t\t %d\t\t %d",p[i],bt[i],wt[i],tat[i]);
64     }
65
66     avg_tat=total/n;          //average turnaround time
67     printf("\n\nAverage Waiting Time=%d",avg_wt);
68     printf("\nAverage Turnaround Time=%d\n",avg_tat);
69
70     return 0;
71 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\Di...\\kou.exe  
- Output Size: 129.7705078125 Kib  
- Compilation Time: 1.92s

Line: 71 Col: 2 Sel: 0 Lines: 71 Length: 1697 Insert Done parsing in 0.015 seconds

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(globals)

es Debug kk.cpp ko.cpp kou.cpp

C:\Users\Dinesh\Documents\kou.exe

Enter Total Number of Process:4

Enter Burst Time and Priority

P[1]  
Burst Time:5  
Priority:1

P[2]  
Burst Time:7  
Priority:6

P[3]  
Burst Time:2  
Priority:4

P[4]  
Burst Time:3  
Priority:5

Process	Burst Time	Waiting Time	Turnaround Time
P[1]	5	0	5
P[3]	2	5	7
P[4]	3	7	10
P[2]	7	10	17

Average Waiting Time=5  
Average Turnaround Time=9

Output Size: 125.7765078125 KIB  
Compilation Time: 1.92s

Activate Wi