

```
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
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
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 }
```

C:\Users\sruthi\OneDrive\Documents\srut.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug sr.cpp sru.cpp srut.cpp

C:\Users\sruthi\OneDrive\Documents\srut.exe

Enter Burst Time and Priority

P[1]

Burst Time:44

Priority:2

P[2]

Burst Time:51

Priority:1

P[3]

Burst Time:49

Priority:4

P[4]

Burst Time:29

Priority:3

Process	Burst Time	Waiting Time	Turnaround Time
---------	------------	--------------	-----------------

P[2]	51	0	51
------	----	---	----

P[1]	44	51	95
------	----	----	----

P[4]	29	95	124
------	----	----	-----

P[3]	49	124	173
------	----	-----	-----

Average Waiting Time=67

Average Turnaround Time=110

Process exited after 55.29 seconds with return value 0

Press any key to continue . . .

Compilation results...

- Errors: 0

- Warnings: 0

- Output Filename: C:\Users\sruthi\OneDrive\Documents\srut.exe

- Output Size: 129.7705078125 KiB

- Compilation Time: 0.44s

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

89°F
Mostly cloudy



ENG
IN 12:12
20-09-2022 27