

Name - Akansha Sundriyal

Student ID - 20052081

Course - BSc IT

Q2 SJF

```
Solution:- #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("n Enter Burst Time: ");
    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;
        }
    }
```

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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; j++)

wt[i] += bt[j];

total += wt[i];

}

avg-wt = (float) total / n;

total = 0;

printf ("n Process Burst Time, Waiting Time and Turnaround Time");

for (i = 0; i < n; i++)

{

tat[i] = bt[i] + wt[i];

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```
total += tat[i];
```

```
printf ("np %.dtt %.dtt %.dttt %.d" p[i], bt[i], wt[i], tat[i]);
```

```
}
```

```
avg-tat = (float) total / n;
```

```
printf ("n Average Waiting Time = %.f", avg-wt);
```

```
printf ("n Average Turnaround Time = %.fn", avg-tat);
```

```
return 0;
```

```
}
```

Akangha Sengupta

C:\Users\niharikaa sharma\OneDrive\Documents\sasa.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\niharikaa sharma\OneDrive\Documents\sasa.exe

```
Enter number of process:4
Enter Burst Time:np1:010
p2:02
p3:01
p4:04
sasapnProcesst Burst Time tWaiting TimetTurnaround Timenp3tt 1tt 0ttt1np2tt 2tt 1ttt3np4tt 4tt 3ttt7np1tt
4210tt 7ttt17nnAverage Waiting Time=2.750000nAverage Turnaround Time=7.000000n
-----
43Process exited after 20.74 seconds with return value 0
44Press any key to continue . . .
45
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57
```

☐ Shorten compiler paths

```
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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\niharikaa sharma\OneDrive\Documents\sasa.exe
- Output Size: 129.1015625 KiB
- Compilation Time: 0.52s
```

Line: 64 Col: 1 Sel: 0 Lines: 65 Length: 1205 Insert Done saving in 0.265 seconds