

Que - 2

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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++)
```

```
}
```

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```

    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; j++)
        wt[i] += bt[j];
    total += wt[i];
}

avg-wt = (float) total / n;
total = 0;

```

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```
Print("\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];
```

```
    Print("\n p \t %.d \t \t %.d \t \t \t  
%.d \t \t \t \t %.d", p[i], bt[i], wt[i], tat[i]);
```

```
}
```

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

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

```
Print("\n\n Average Turnaround Time = %.f\n",  
avg-tat);
```

```
}
```

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timepass 3.c - Code::Blocks 20.03

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<global> main(): int

"D:\bsc.it\c program\timepass 3.exe"

Enter number of process:4

Enter Burst Time:

p1:10

p2:2

p3:1

p4:4

Process	Burst Time	Waiting Time	Turnaround Time
p3	1	0	1
p2	2	1	3
p4	4	3	7
p1	10	7	17

Average Waiting Time=2.750000

Average Turnaround Time=7.000000

Process returned 0 (0x0) execution time : 19.949 s

Press any key to continue.

```
printf("\n\nAverage Waiting Time=%f",avg_wt);
printf("\n\nAverage Turnaround Time=%f\n",avg_tat);
```

D:\bsc.it\c program\timepass 3.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 50, Col 2, Pos 1189 Insert Read/Write default 10:44 AM 6/22/2021