

```
#include <stdio.h>
int main()
```

```
{
    int
    bt[20], p[20], wt[20], tat[20], i, j, n, total = 0, post, temp;
```

```
    float avg-wt, avg-tat;
    printf("Enter number of process:");
    scanf("%d", &n);
```

```
    printf("\n Enter Burst time: \n");
    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;
```

```
}
```

*Joshi*

```

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;
print("In 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];
    printf("\np %d |t %d |t %d |t %d",
        p[i], bt[i], wt[i], tat[i]);
}

```

Total

}

avg-tat = (float) total / n;

printf ("In Average Waiting Time = %f", avg-wt);

printf ("In Average Turnaround Time = %f\n", avg-tat);

}

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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

...Program finished with exit code 0

Press ENTER to exit console.