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'A'

BSc-IT

Ques: 2

Ans

```
#include <stdio.h>
```

```
int main ()
```

```
{
```

```
int b[20], p[20], wt[20], tat[20], j, n, total = 0, pos, 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", &b[i]);
```

```
p[i] = i+1;
```

```
}
```

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

```
{
```

```
pos = i;
```

```
for (j = i+1; j < n; j++)
```

```
{
```

```
if (b[j] < b[pos])
```

```
pos = j;
```

```
}
```

```
temp = b[i];
```

```
b[i] = b[pos];
```

```
b[pos] = temp;
```

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```

temp = p[i];
p[i] = p[pos];
p[pos] = temp;
}
wt[0] = 0;
for (i = 0; i < n; i++)
{
    wt[i] = 0;
    for (j = 0; j < i; j++)
        wt[i] += bt[j];
    totat += wt[i];
}
avg_wt = (float) totat / n;
totat = 0;
printf("\n Process\t Burst Time\t waiting Time\t Turnaround Time");
for (i = 0; i < n; i++)
{
    tq[i] = bt[i] + wt[i];
    totat += tq[i];
    printf("\n p\t\t wt\t\t tq\t\t p[i], bt[i], wt[i], tq[i];");
}
avg_tat = (float) totat / n;
printf("\n\n Average waiting Time = %.f", avg_wt);
printf("\n\n Average Turnaround Time = %.f", avg_tat);
}

```

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"D:\bsc.it\c program\timpass 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.