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Subject Name - Operating System (practical)
Subject Code - TBI 202

Ans

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

```
int main()
```

```
{
```

```
int bt[20], wt[20], i, j, total = 0, pos, temp;
```

```
int bt[20] = {2, 5, 4, 7}
```

```
float avg-wt;
```

```
int n = 4;
```

```
printf("Total number of pending process: %d"
```

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

```
{
```

```
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;
```

```
printf("\n Total Time \ t (completion Time)  
t (Waiting time)");
```

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

```
{  
    tat[i] = bt[i] + wt[i];  
    total += tat[i]  
    printf("\n %d\t\t %d\t\t %d\t\t", i+1, total  
    tat[i], wt[i]);  
}  
printf("\n Average waiting Time = %f", avg_wt);  
return 0;  
}
```