

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

void main()
{
    int et[20], at[10], n, i, j, temp, st[10], ft[10],
        wt[10], ta[10];
    int totalwt = 0, totta = 0;
    float awt, ata;
    char pn[10][10], st[10];
    printf("Enter the number of process:");
    scanf("%d", &n);
    for (i = 0; i < n; i++)
    {
        printf("Enter process name, arrival time &
            execution time:");
        scanf("%s %d %d", pn[i], &at[i], &et[i]);
    }
    for (i = 0; i < n; i++)
        for (j = 0; j < n; j++)
        {
```

```
if (et[i] < wt[j])
```

```
{
```

```
temp = at[i];
```

```
at[i] = at[j];
```

```
at[j] = temp;
```

```
temp = et[i];
```

```
et[i] = et[j];
```

```
et[j] = temp;
```

```
stacky(t, pn[i]);
```

```
stacky(pn[i], pn[j]);
```

```
stacky(pn[j], t);
```

```
}
```

```
}
```

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

```
{
```

```
if (i == 0)
```

```
st[i] = at[i];
```

```
else
```

```
st[i] = ft[i-1];
```

```
wt[i] = st[i] - at[i];
```

```
ft[i] = st[i] + et[i];
```

```
ta[i] = ft[i] - at[i];
```

```
totwt += wt[i];
```

```
totta += ta[i];
```

```
}
```



```

awt = (float) totwt / n;
ata = (float) totta / n;
printf ("n Pname \t arrival time \t execution time \t\n\n");
printf ("waiting time \t tatime");
for (i=0; i<n; i++)
    printf (" \n %s \t %5d \t %5d \t %5d", pn[i],
            at[i], et[i], wt[i], ta[i]);
printf (" \n Average waiting time is: %.f", awt);
printf (" \n Average turn around time is: %.f", ata);
getch();
}

```