

```

Ans]
# include <stdio.h>
# include <conio.h>
# include <string.h>

void main()
{
    int
        Li[20], Ti[10], N, i, j temp, st[10], ft[10], wt[10],
        ta[10];
    int totwt = 0, totta = 0
    int aint, ata;
    char or[10][10], t[10];
    // clrscr();
    printf("Enter the number of customer:");
    scanf("%d", &N);
    for (i=0; i<N; i++)
    {
        printf("Enter customer number, Order time &
cooking time:");
        // Flushall();
        scanf("%s%d%d", or[i], &Ti[i], &Li[i]);
    }
    for (i=0; i<N; i++)
        for (j=0; j<N; j++)
    {
        if (Li[i] < Li[j])
}

```

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{

```

temp = Ti[i];
Ti[i] = Ti[j];
Ti[j] = temp;
Temp = Li[i];
Li[i] = Li[j];
Li[j] = temp;
strcpy(t, or[i])
strcpy(or[i], or[j]);
strcpy(or[j], t);

```

}

for(i=0, i<N; i++)

{

if (i==0)

st[i] = Ti[i]

else

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

wt[i] = st[i] - Ti[i]

ft[i] = st[i] + Li[i]

ta[i] = ft[i] - Ti[i]

totwtz = wt[i]

fatfat = ta[i]

}

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```
aut = (Float) totwt / N;
ata = (Float) totta / N;

printf ("norder ()\torder time (min)\tcooking
time (min)\twaiting time (min); O

for (i=0; i<N; i++)
    printf ("n %s\t%5d\t%5d\t%5d", or[i], Ti[i], L[i],
    wt[i], ta[i]);
    getch();
}

}
```

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Microsoft Windows [Version 10.0.19042.1052]  
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C:\Users\ASUS>cd "C:\Users\ASUS\AppData\Local\Temp\" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "C:\Users\ASUS\AppData\Local\Temp\"tempCodeRunnerFile

Enter the number of customer:3

Enter customer number, ordertime& cooking time:or1

2

3

Enter customer number, ordertime& cooking time:or2

2

5

Enter customer number, ordertime& cooking time:or3

1

8

	order()	ordertime(min)	cookingtime(min)	waitingtime(min)
or1	2	3	0	3
or2	2	5	3	8
or3	1	8	9	17

Average waiting time is:4