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Course BSC IT

Section A

Q1. #include <stdio.h>

#include <conio.h>

#include <string.h>

void main()

{
int Li[20], Ti[20], N, i, j, temp, s[10], ft[20], ht[20], t[10], x=0;

int to[20]=0, b[20]=0;

int qut, qts;

char or[10][10], t[10];

printf("Enter no. of customers:");

scanf("%d", &N);

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

{
printf("Order[%d]: OrderTime & CookingTime: ", x=x+1);

scanf("%s %d %d", or[i], &Ti[i], &Li[i]);

3
for(i=0; i<N; i++)

for(j=0; j<N; j++)

{
if(Li[i] < Li[j])

{
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);

3 } }

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

```
{
```

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

```
        SE[i] = Ti[i];
```

```
    else
```

```
        SE[i] = FE[i-1];
```

```
        LE[i] = SE[i] - Ti[i];
```

```
        FE[i] = SE[i] + Li[i];
```

```
        ES[i] = FE[i] - Ti[i];
```

```
        totLE += LE[i];
```

```
        totES += ES[i];
```

```
}
```

```
qLE = (float) totLE / N;
```

```
qES = (float) totES / N;
```

```
printf("\nOrder | OrderTime | Cooking Time | Waiting Time");
```

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

```
    printf("\n/os | %5d | %5d | %5d | %5d", or[i], Ti[i],
```

```
        Li[i], LE[i], ES[i]);
```

```
printf("\nAverage Waiting Time = : %d", qLE);
```

```
getch();
```

```
}
```

Enter no. of customers:3

Order:Ordertime& Cooking time:1 0 3

Order:Ordertime& Cooking time:2 1 9

Order:Ordertime& Cooking time:3 2 6

Order	Ordertime (min)	Cookingtime (min)	Waitingtime (min)
1	0	3	0
3	2	6	1
2	1	9	8

Average waiting time =3

...Program finished with exit code 0

Press ENTER to exit console.