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Course - BSc-IT

Q1.

```
#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 awt, ata;
    char or[10][10], t[10];

    printf("Enter the no. of customer:");
    scanf("%d", &N);

    for (i = 0; i < N; i++) {
        printf("Enter customer number, order time & cooking time:");
        scanf("%s %d %d", or[i], &Ti[i], &Li[Ti]);
    }

    for (i = 0; i < N; i++)
        for (j = 0; j < N; j++)
            if (Li[i] < Li[j])
            {
                temp = Ti[j];
                Ti[j] = Ti[i];
                Ti[i] = temp;
            }
}
```

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    Li[j] = Li[j];
    Li[j] = temp;
    strcpy(t, oo[j]);
    strcpy(oo[j], oo[j]);
    strcpy(oo[j], t);
}
}
for (i = 0; i < N; i++) {
    if (i == 0)
        s[i] = Ti[i];
    else
        s[i] = f[i-1];
        wt[i] = s[i] - Ti[i];
        f[i] = s[i] + Ti[i];
        ta[i] = f[i] - Ti[i];

        totwt += wt[i];
        totta += ta[i];
}
(float)
awt = totwt;
(float)
ata = totta;

printf("In order() \t order time \t cooking time \t waiting time");
for (i = 0; i < N; i++)
    printf("In %s \t %s \t %s \t %s", oo[i], Ti[i], Li[i], wt[i], ta[i]);

printf("In Avg waiting time is: %d", awt);
getch();
}

```

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