Q2→

```c
# include <stdio.h>
int main ()
{
    int bt [20], P[20], wt [20], tat [20], i, j, n total =0, pos, temp;
    float avg_wt, avg-tat;
    printf ("Enter namber of process:");
    scanf ("%d", &n);

    printf ("\n Enter Bust Time :\n");
    for (i=0; i<n; i++)
    {
        printf ("p %d :", i+1);
        scanf ("%d", &bt[i]);
        p[i]=i+1;
    }
        for (i=0; i<n; i++
        {
            pos =i;

            for (j=i+1; j <n; j++)
            {
```

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```c
    {
        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;                        //waiting time for first process will be zero

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;          //average waiting time
total=0;

printf("\n Process\t Burst Time \twaiting time\t Turn around time");
for(i=0; i<n; i++)
{
    tat[i]=bt[i]+wt[i];          // calculate turn around time
    total+=tat[i];
    printf("\np %d\t\t %d\t\t %d\t\t\t%d," ---
```

```c
--- =  ,p[i], bt[i], wt[i], tat[i]);
    }

    avg_tat =(float) total/n;    //average turn around time
    printf("\n\nAverage Waiting Time = %b", avg_wt);
    printf("\nAverage Turnaround Time = %b \n", avg_tat);
}
```

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TDM-GCC 4.9.2 64-bit Release

Project   Classe

C:\Users\user\Documents\SJF2.exe

```
Enter number of process:4

Enter Burst Time:
p1:10
p2:2
p3:1
p4:4

Process        Burst Time         Waiting Time      Turnaround Time
p3               1                   0                    1
p2               2                   1                    3
p4               4                   3                    7
p1               10                  7                    17

Average Waiting Time=2.750000
Average Turnaround Time=7.000000

--------------------------------
Process exited after 6.528 seconds with return value 0
Press any key to continue . . .
```

```
30
31              temp=p[i];
32              p[i]=p[pos];
33              p[pos]=temp;
34          }
35
36      wt[0]=0;              //waiting time for first process will be zero
37
```

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