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①

Student ID - 20052122

Roll no - 2023115

Section - 'B'

Subject - Mid Term Practical (OS)

Date - 14/July/21

②

```
#include <stdio.h>

void main()
{
    int bt[20], task[20], wt[20], i, j, n, total = 0,
        pos, temp;
    float avg_wt, avg_tat;
    printf("Enter number of pending tasks");
    scanf("%d", &n);
    printf("Time Taken to complete tasks:\n");
    for (i = 0; i < n; i++)
    {
        printf("p%d : ", i+1);
        scanf("%d", &bt[i]);
        task[i] = i+1;
    }
    for (i = 0; i < n; i++)
    {
        pos = i;
        for (j = i+1; j < n; j++)
        {
            if (bt[j] < bt[pos])
                pos = j;
        }
    }
}
```

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PBI-202: Implement Round Rob...

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Language C

main.c

```
34 bt[pos]=temp;
35
36 temp=task[i];
37 task[i]=task[pos];
38 task[pos]=temp;
39 }
40 wt[0]=0;
41
42
43 for(i=1;i<n;i++)
44 {
45     wt[i]=0;
46     for(j=0; j<i; j++)
```

input

Enter number of pending tasks:5  
Time taken to complete task:  
p1:23  
p2:45  
p3:7  
p4:8  
p5:9  
  
total task Time taken average Waiting Time  
task 3 7 0  
task 4 8 7  
task 5 9 15  
task 1 23 24  
task 2 45 47  
  
...Program finished with exit code 0  
Press ENTER to exit console.

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10:44 AM  
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① #include <stdio.h>  
#include <conio.h>

void main()

{  
int i, NOV, sum = 0, count = 0, y, quant = 4, wt = 0,  
tat = 0, bt[10], temp[10], at[10];

float avg\_wt, avg\_tat;

printf("Total number of visitors:");

scanf("%d", &NOV);

y = NOV;

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

{  
printf("Enter the Arrival Time and time stayed of  
visitor [%d]\n", i+1);

printf("Arrival Time is:\n");

scanf("%d", &at[i]);

printf("time stayed is:\n");

scanf("%d", &bt[i]);

temp[i] = bt[i];

}

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(2)

```
printf (" \n Visitor \t \t TAT \t \t Waiting Time");  
for sum = 0, i = 0; y != 0; )
```

```
{  
    if temp[i] < n = quant && temp[i] > 0
```

```
{  
    sum = sum + temp[i];  
    temp[i] = 0;  
    count = 1;  
}
```

```
else if (temp[i] > 0)
```

```
{  
    temp[i] = temp[i] - quant;  
    sum = sum + quant;
```

```
}  
if temp[i] == 0 && count == 1)
```

```
{  
    y--;  
    printf (" \n Visitor No [%d] \t \t %d \t \t \t \t ",  
            i+1, sum - at[i], sum - at[i] - bt[i]);  
    wt = wt + sum - at[i] - bt[i];  
    lat = lat + sum - at[i];  
    count = 0;
```

```
}  
if (i == NoV - 1)  
{  
    i = 0;
```

```
}  
else if (at[i+1] <= sum)  
{  
    i++;
```

```
}  
else  
{  
    i = 0;  
}
```

*Asheema*  
14/July/21



(3)

```
avg_wt = wt * 1.0 / NOV;  
printf ("\n Average Waiting Time visitor waited in que:  
      %f ", avg_wt);  
getch();  
}
```

Bishal Kumar  
14/July/21

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input

```
Total number of visitors : 5
Enter the Arrival time and time stayed of visitor[1]
Arrival time is:
12
time stayed is:
13
Enter the Arrival time and time stayed of visitor[2]
Arrival time is:
12
time stayed is:
13
Enter the Arrival time and time stayed of visitor[3]
Arrival time is:
12
time stayed is:
13
Enter the Arrival time and time stayed of visitor[4]
Arrival time is:
12
time stayed is:
13
Enter the Arrival time and time stayed of visitor[5]
Arrival time is:
12
time stayed is:
13

Visitor          TAT          Waiting Time
Visitor No[1]    17              4
Visitor No[2]    50              37
Visitor No[3]    51              38
Visitor No[4]    52              39
Visitor No[5]    53              40
Average Waiting Time visitor waited in que: 31.600000

...Program finished with exit code 0
Press ENTER to exit console.
```

Type here to search

11:07 AM 7/14/2021