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(globals)

Project Classes Debug   [*] Untitled1   [*] process.cpp   round robin.cpp

```c
#include<stdio.h>

int main()
{

    int count,j,n,time,remain,flag=0,time_quantum;
    int wait_time=0,turnaround_time=0,at[10],bt[10],rt[10];
    printf("Enter Total Process:\t ");
    scanf("%d",&n);
    remain=n;
    for(count=0;count<n;count++)
    {
        printf("Enter Arrival Time and Burst Time for Process Process Number %d :",count+1);
        scanf("%d",&at[count]);
        scanf("%d",&bt[count]);
        rt[count]=bt[count];
    }
    printf("Enter Time Quantum:\t");
    scanf("%d",&time_quantum);
    printf("\n\nProcess\t|Turnaround Time|Waiting Time\n\n");
    for(time=0,count=0;remain!=0;)
    {
        if(rt[count]<=time_quantum && rt[count]>0)
        {
            time+=rt[count];
            rt[count]=0;
            flag=1;
        }
        else if(rt[count]>0)
        {
            rt[count]-=time_quantum;
            time+=time_quantum;
        }
        if(rt[count]==0 && flag==1)
        {
```

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```cpp
21      for(time=0,count=0;remain!=0;)
22      {
23        if(rt[count]<=time_quantum && rt[count]>0)
24        {
25          time+=rt[count];
26          rt[count]=0;
27          flag=1;
28        }
29        else if(rt[count]>0)
30        {
31          rt[count]-=time_quantum;
32          time+=time_quantum;
33        }
34        if(rt[count]==0 && flag==1)
35        {
36          remain--;
37          printf("P[%d]\t|\t%d\t|\t%d\n",count+1,time-at[count],time-at[count]-bt[count]);
38          wait_time+=time-at[count]-bt[count];
39          turnaround_time+=time-at[count];
40          flag=0;
41        }
42        if(count==n-1)
43          count=0;
44        else if(at[count+1]<=time)
45          count++;
46        else
47          count=0;
48      }
49      printf("\nAverage Waiting Time= %f\n",wait_time*1.0/n);
50      printf("Avg Turnaround Time = %f",turnaround_time*1.0/n);
51
52      return 0;
53    }
54
```

```
C:\Users\kadiv\OneDrive\Documents\round robin.exe                    —    □

Enter Total Process:      2
Enter Arrival Time and Burst Time for Process Process Number 1 :23
2
Enter Arrival Time and Burst Time for Process Process Number 2 :4
5
Enter Time Quantum:       3


Process |Turnaround Time|Waiting Time

P[1]    |        -21    |        -23
```