

Task 11: Write a program to find the finish time, turnaround time, and waiting time using Round Robin Algorithm (input Takes by user).

```
//round robin
#include <stdio.h>

void findWaitingTime(int processes[], int n, int bt[], int wt[], int quantum) {
    int rem_bt[n];
    for (int i = 0; i < n; i++) {
        rem_bt[i] = bt[i];
    }
    int t = 0;
    while (1) {
        int done = 1;
        for (int i = 0; i < n; i++) {
            if (rem_bt[i] > 0) {
                done = 0;
                if (rem_bt[i] > quantum) {
                    t += quantum;
                    rem_bt[i] -= quantum;
                } else {
                    t = t + rem_bt[i];
                    wt[i] = t - bt[i];
                    rem_bt[i] = 0;
                }
            }
        }
    }
    if (done == 1) {
        break;
    }
}
```

```
}
```

```
void findTurnAroundTime(int processes[], int n, int bt[], int wt[], int tat[]) {  
    for (int i = 0; i < n; i++) {  
        tat[i] = bt[i] + wt[i];  
    }  
}
```

```
void findFinishTime(int processes[], int n, int at[], int bt[], int wt[], int ft[]) {  
    for (int i = 0; i < n; i++) {  
        ft[i] = at[i] + bt[i] + wt[i];  
    }  
}
```

```
int main() {  
    int n, quantum;  
    printf("Enter the number of processes: ");  
    scanf("%d", &n);  
  
    int processes[n], burst_time[n], arrival_time[n], waiting_time[n], turnaround_time[n],  
    finish_time[n];  
  
    for (int i = 0; i < n; i++) {  
        printf("Enter arrival time for process %d: ", i + 1);  
        scanf("%d", &arrival_time[i]);  
        printf("Enter burst time for process %d: ", i + 1);  
        scanf("%d", &burst_time[i]);  
    }  
  
    printf("Enter time quantum: ");  
    scanf("%d", &quantum);
```

