

## Code 6

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#include <stdio.h>

int main() {
    int n, tq, time = 0, remain;
    printf("Enter number of processes: ");
    scanf("%d", &n);

    int bt[n], rt[n], wt[n], tat[n];
    remain = n;

    for(int i = 0; i < n; i++) {
        printf("Enter Burst Time for P%d: ", i+1);
        scanf("%d", &bt[i]);
        rt[i] = bt[i];
    }

    printf("Enter Time Quantum: ");
    scanf("%d", &tq);

    printf("\nProcess\tBT\tTAT\tWT\n");

    for(int i = 0, flag = 0; remain != 0;) {
        if(rt[i] > 0 && rt[i] <= tq) {
            time += rt[i];
            rt[i] = 0;
            flag = 1;
        }
    }
```

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else if(rt[i] > 0) {  
    rt[i] -= tq;  
    time += tq;  
}  
if(rt[i] == 0 && flag == 1) {  
    remain--;  
    tat[i] = time;  
    wt[i] = tat[i] - bt[i];  
    printf("P%d\t%d\t%d\t%d\n", i+1, bt[i], tat[i], wt[i]);  
    flag = 0;  
}  
i = (i+1) % n;  
}  
  
return 0;  
}
```