#include <stdio.h>

int main() {

int n, i, time, remain, flag = 0, time\_quantum;

int wait\_time = 0, turnaround\_time = 0;

int burst\_time[100], rem\_bt[100];

printf("Enter number of processes: ");

scanf("%d", &n);

printf("Enter burst time for each process:\n");

for(i = 0; i < n; i++) {

printf("P[%d]: ", i+1);

scanf("%d", &burst\_time[i]);

rem\_bt[i] = burst\_time[i];

}

printf("Enter time quantum: ");

scanf("%d", &time\_quantum);

int t = 0;

printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");

while(1) {

int done = 1;

for(i = 0; i < n; i++) {

if(rem\_bt[i] > 0) {

done = 0; // There is a pending process

if(rem\_bt[i] > time\_quantum) {

t += time\_quantum;

rem\_bt[i] -= time\_quantum;

} else {

t += rem\_bt[i];

wait\_time = t - burst\_time[i];

turnaround\_time = t;

rem\_bt[i] = 0;

printf("P[%d]\t%d\t\t%d\t\t%d\n", i+1, burst\_time[i], wait\_time, turnaround\_time);

}

}

}

if(done == 1) // All processes done

break;

}

return 0;

}

