#include <iostream>

#include <vector>

using namespace std;

void findWaitingTime(int processes[], int n, int bt[], int wt[]) {

wt[0] = 0;

for (int i = 1; i < n; i++) {

wt[i] = bt[i - 1] + wt[i - 1];

}

}

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 findAverageTime(int processes[], int n, int burst\_time[]) {

int wt[n], tat[n], total\_wt = 0, total\_tat = 0;

findWaitingTime(processes, n, burst\_time, wt);

findturnAroundTime(processes, n, burst\_time, wt, tat);

cout << "Processes\tBurst Time\tWaiting Time\tTurn Around Time\n";

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

total\_wt += wt[i];

total\_tat += tat[i];

cout << " " << processes[i] << "\t\t" << burst\_time[i] << "\t\t" << wt[i] << "\t\t" << tat[i] << endl;

}

}

int main() {

int processes[] = {1, 2, 3, 4};

int n = sizeof(processes) / sizeof(processes[0]);

int burst\_time[] = {21, 3, 6, 2};

findAverageTime(processes, n, burst\_time);

return 0;

}