

OpenJudge 题目ID, 标题, 描述 郭旭杰 信箱 账

CS101 / 计算思维算法实践

题目 排名 状态 提问

M01922:Ride to School

总时间限制: 1000ms 内存限制: 65536kB

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全局题号 924

添加于 2025-03-22

提交次数 344

尝试人数 94

通过人数 91

你的提交记录

#	结果	时间
6	Accepted	2025-09-18
5	Wrong Answer	2025-09-18
4	Wrong Answer	2025-09-18
3	Wrong Answer	2025-09-18
2	Wrong Answer	2025-09-18
1	Wrong Answer	2025-09-17

描述

Many graduate students of Peking University are living in Wanliu Campus, which is 4.5 kilometers from the main campus – Yanyuan. Students in Wanliu have to either take a bus or ride a bike to go to school. Due to the bad traffic in Beijing, many students choose to ride a bike.

We may assume that all the students except "Charley" ride from Wanliu to Yanyuan at a fixed speed. Charley is a student with a different riding habit – he always tries to follow another rider to avoid riding alone. When Charley gets to the gate of Wanliu, he will look for someone who is setting off to Yanyuan. If he finds someone, he will follow that rider, or if not, he will wait for someone to follow. On the way from Wanliu to Yanyuan, at any time if a faster student surpassed Charley, he will leave the rider he is following and speed up to follow the faster one.

We assume the time that Charley gets to the gate of Wanliu is zero. Given the set off time and speed of the other students, your task is to give the time when Charley arrives at Yanyuan.

输入

There are several test cases. The first line of each case is N ($1 \leq N \leq 10000$) representing the number of riders (excluding Charley). $N = 0$ ends the input. The following N lines are information of N different riders, in such format:

V_i [TAB] T_i

V_i is a positive integer ≤ 40 , indicating the speed of the i -th rider (kph, kilometers per hour). T_i is the set off time of the i -th rider, which is an integer and counted in seconds. In any case it is assured that there always exists a nonnegative T_i .

输出

Output one line for each case: the arrival time of Charley. Round up (ceiling) the value when dealing with a fraction.