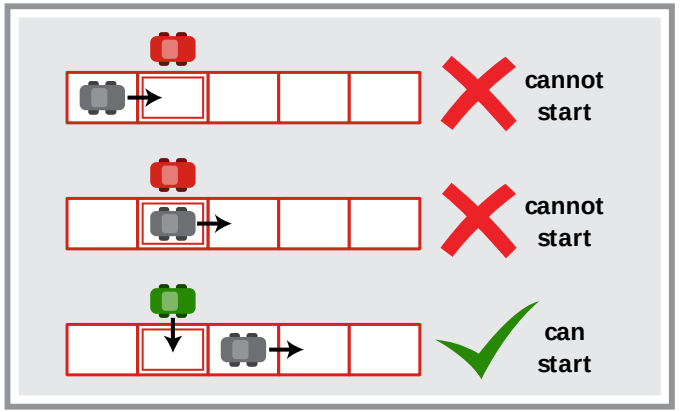
Starting at different times

Level 2

When not all trips start at the same time, additional rules become relevant:

- the starting time is the earliest time point a car can enter the start segment of its trip
- a car can only enter a road when, both, the start segment and the segment before were not occupied during the past second



Starting at different times

Level 2

Calculate the arrival times when the cars can have different starting times.

Input
like level 1 but with additional starting times

number road segments (n)
number of cars (m)
startsegment,endsegment,startingtime for car 1
...
startsegment,endsegment,startingtime for car m

1 < n < 1000
1 < m < 1000
1 <= startsegment < endsegment <= n
1 <= starting time <= 10000

Result:
arrival times of the cars, separated by comma, in the order of the input

Example input

```
40
10
11,13,28
30,37,62
4,24,102
6,33,138
27,30,154
20,32,170
11,19,196
2,20,209
18,21,239
23,24,273
```

Example output

```
31,70,123,166,158,183,205,228,243,275
```