Carroller Problems(/problemset	/all/) Mock(/interview/) Contest Discuss(/discuss) Line cultract ent to win give aw Storedata = eyJ1cmwiOiAiaHR0c	ay! 📅 HM6Ly9sZ\	WV0Y29kZS5jb20vZGlzY3Vzcy	y9nZW5lcmFsLW
5692. Car Fleet II	My Submissions (/contest/weekly-contest-230/problems/car-fleet-ii/submissions/)  Back to		o Contest (/contest/weekly-contest-230/)	
There are n cars traveling at different speeds in the same direction along a one-lane road. You are given an array cars of length n, where cars[i] = [position <sub>i</sub> , speed <sub>i</sub> ] represents:			User Accepted:	4
$ullet$ position $_{i}$ is the distance between the $i^{\text{th}}$ car and the beginning of the road in meters. It is guaranteed that $position_{i}$			User Tried:	15
<pre>&lt; position<sub>i+1</sub>. • speed<sub>i</sub> is the initial speed of the i<sup>th</sup> car in meters per second.</pre>			Total Accepted:	4
For simplicity, cars can be considered as points moving along the number line. Two cars collide when they occupy the same position. Once a car collides with another car, they unite and form a single car fleet. The cars in the formed fleet will have the same position and the same speed, which is the initial speed of the <b>slowest</b> car in the fleet.		o camo	Total Submissions:	25
		e same	Difficulty:	Hard
Return an array answer, where ans	wer[i] is the time, in seconds, at which the i <sup>th</sup> car collides with the next car, or -1	if the car o	does not collide with the ne	xt car.

Return an array answer, where answer[i] is the time, in seconds, at which the i<sup>th</sup> car collides with the next car, or -1 if the car does not collide with the next car. Answers within 10<sup>-5</sup> of the actual answers are accepted.

## Example 1:

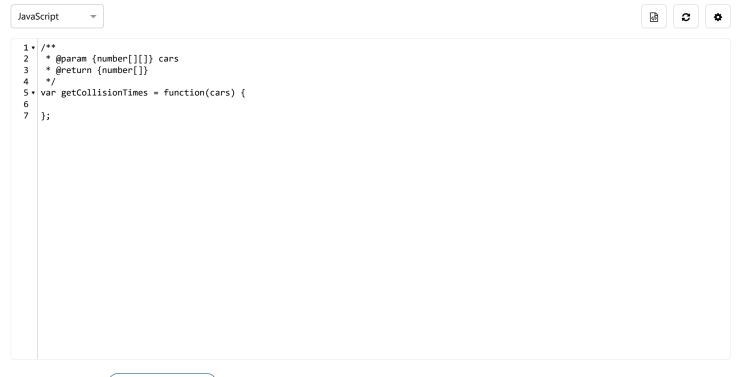
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Input: cars = [[1,2],[2,1],[4,3],[7,2]]
Output: [1.00000,-1.00000,3.00000,-1.00000]
Explanation: After exactly one second, the first car will collide with the second car, and form a car fleet with speed 1 m/s. After exactly

Example 2:
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```
Input: cars = [[3,4],[5,4],[6,3],[9,1]]
Output: [2.00000,1.00000,1.50000,-1.00000]
```

## **Constraints:**

- 1 <= cars.length <=  $10^5$
- 1 <=  $position_i$ ,  $speed_i <= 10^6$
- $position_i < position_{i+1}$



■ Custom Testcase

Use Example Testcases