

1701. Average Waiting Time

Solved 

Medium

Topics

Companies

Hint

There is a restaurant with a single chef. You are given an array `customers`, where `customers[i] = [arrivali, timei]`:

- `arrivali` is the arrival time of the `ith` customer. The arrival times are sorted in **non-decreasing** order.
- `timei` is the time needed to prepare the order of the `ith` customer.

When a customer arrives, he gives the chef his order, and the chef starts preparing it once he is idle. The customer waits till the chef finishes preparing his order. The chef does not prepare food for more than one customer at a time. The chef prepares food for customers **in the order they were given in the input**.

Return the **average** waiting time of all customers. Solutions within `10-5` from the actual answer are considered accepted.

```
class Solution {
    func averageWaitingTime(_ customers: [[Int]]) -> Double {
        var currenttime = customers[0][0]
        var totalwatingtime = 0

        var j = 0
        while (j < customers.count) {
            if(currenttime <= customers[j][0]){
                totalwatingtime = totalwatingtime + customers[j][1]
                currenttime = customers[j][0] + customers[j][1]
            } else {
                let tempwattime = currenttime + customers[j][1] -
customers[j][0]
                totalwatingtime = totalwatingtime + tempwattime
                currenttime = currenttime + customers[j][1]
            }
            j = j + 1
        }

        return Double(totalwatingtime)/Double(customers.count)
    }
}
```