Problem 1169: Invalid Transactions

Problem Information

Difficulty: Medium
Acceptance Rate: 31.65%
Paid Only: No
Tags: Array, Hash Table, String, Sorting

Problem Description

A transaction is possibly invalid if:

* the amount exceeds `$1000`, or; * if it occurs within (and including) `60` minutes of another transaction with the **same name** in a **different city**.

You are given an array of strings `transaction` where `transactions[i]` consists of comma-separated values representing the name, time (in minutes), amount, and city of the transaction.

Return a list of `transactions` that are possibly invalid. You may return the answer in **any order**.

Example 1:

Input: transactions = ["alice,20,800,mtv","alice,50,100,beijing"] **Output:** ["alice,20,800,mtv","alice,50,100,beijing"] **Explanation:** The first transaction is invalid because the second transaction occurs within a difference of 60 minutes, have the same name and is in a different city. Similarly the second one is invalid too.

Example 2:

Input: transactions = ["alice,20,800,mtv","alice,50,1200,mtv"] **Output:** ["alice,50,1200,mtv"]

Example 3:

Input: transactions = ["alice,20,800,mtv","bob,50,1200,mtv"] **Output:** ["bob,50,1200,mtv"]

Constraints:

* `transactions.length <= 1000` * Each `transactions[i]` takes the form `"{name},{time},{amount},{city}"` * Each `{name}` and `{city}` consist of lowercase English letters, and have lengths between `1` and `10`. * Each `{time}` consist of digits, and represent an integer between `0` and `1000`. * Each `{amount}` consist of digits, and represent an integer between `0` and `2000`.

Code Snippets

C++:

```
class Solution {
public:
    vector<string> invalidTransactions(vector<string>& transactions) {


    }
};
```

Java:

```
class Solution {
    public List<String> invalidTransactions(String[] transactions) {


    }
}
```

Python3:

```
class Solution:
    def invalidTransactions(self, transactions: List[str]) -> List[str]:
```