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01 : 54 : 36
HRS   MIN   SEC

Shopee Code League 2022 - Qualification Round

LIVE   **INVITE ONLY ACCESS**

Mar 19, 2022, 03:00 PM SGT - Mar 19, 2022, 06:00 PM SGT

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   LEADERBOARD   ANALYTICS   JUDGE

← Problems / Money Transfer

Money Transfer

Max. score: 100

SeaMoney has a feature to transfer money between users. Let's imagine a simple scenario.

N usernames—consisting of lowercase Latin characters—each starts with a balance b. Amongst them, T transactions happened, where user u_a transfers x amount of money to u_b. If x is larger than the u_a's balance when the transaction happens, the transaction is automatically rejected.

Output the final balance of each user.

Input

The first line contains two numbers N and T $(1 \le N, T \le 1000)$. Each of the next N following lines contain username u_i $(1 \le |u_i| \le 10)$ and integer b_i $(1 \le b_i \le 10^9)$, denoting the balance of user u_i. Following that are T lines, each containing two usernames u_a and u_b $(u_a \ne u_b)$ followed by an integer x $(1 \le x \le 10^9)$, denoting the amount of money transferred from u_a to u_b .

Output

Output the balance of all users in alphabetical order.

SAMPLE INPUT

```
3 4
amir 10
brenda 10
charlie 10
amir brenda 5
brenda charlie 5
charlie amir 20
charlie amir 7
```

SAMPLE OUTPUT

```
amir 12
brenda 10
```

```
charlie 8
```

Explanation

NA

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned when all the testcases pass.
Allowed Languages:	Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic

CODE EDITOR

Save   C++14 (g++ 10.3.0)

```cpp
1   /*
2   // Sample code to perform I/O:
3
4   cin >> name;                          // Reading input from STDIN
5   cout << "Hi, " << name << ".\n";      // Writing output to STDOUT
6
7   // Warning: Printing unwanted or ill-formatted data to output will cause
    the test cases to fail
8   */
9
10  // Write your code here
11
```

1:1

Test against custom input ▼

Compile & Test code

Submit code

🪄 **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

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