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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 ($1 \leq N, T \leq 1000$). Each of the next N following lines contain username u_i ($1 \leq |u_i| \leq 10$) and integer b_i ($1 \leq b_i \leq 10^9$), denoting the balance of user u_i . Following that are T lines, each containing two usernames u_a and u_b ($u_a \neq u_b$) followed by an integer x ($1 \leq x \leq 10^9$), 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, Swii ?

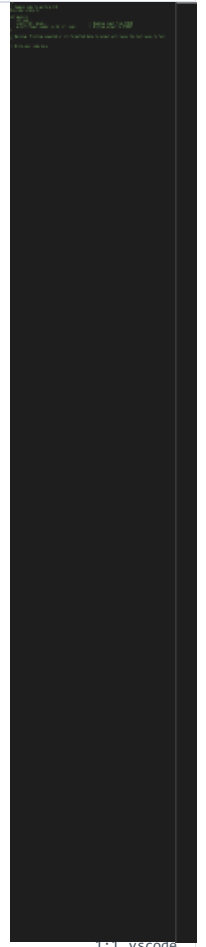
CODE EDITOR

Save

C (gcc 10.3)



```
1  /*
2  // Sample code to perform I/O:
3  #include <stdio.h>
4
5  int main(){
6      int num;
7      scanf("%d", &num);          // Reading input from STDIN
8      printf("Input number is %d.\n", num);    // Writing output to STDOUT
9  }
10
11 // Warning: Printing unwanted or ill-formatted data to output will cause the test cases to fail
12 */
13
14 // Write your code here
15
```



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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+1-650-461-4192

contact@hackerearth.com

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Practice Machine Learning

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