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HRS MIN SEC

American Express - AmExpert Smart-O-Thon

LIVE

INVITE ONLY ACCESS

Jul 09, 2021, 09:00 PM IST - Jul 10, 2021, 02:00 AM IST

INSTRUCTIONS

PROBLEMS

SUBMISSIONS

LEADERBOARD

ANALYTICS

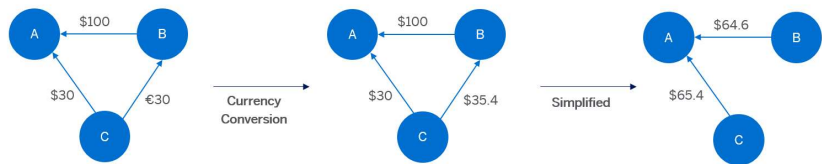
JUDGE

← Problems / Easy Convert

Easy Convert

Max. score: 20

ABC Bank is launching a new feature called ‘Easy-Convert’ on its mobile application. A user can easily transfer funds to another user using this feature. Funds transfer can be done in Dollars, Rupees or Euros. At the end of each day, the bank needs to settle the net balance across all transactions. You need to develop an algorithm to calculate the minimum number of transactions required to settle the balances for all users.



SAMPLE INPUT

```
10
3 6 3922 Dollar
1 3 3105 Euro
6 2 3382 Rupees
10 8 4483 Rupees
5 2 2015 Dollar
10 9 1260 Dollar
1 2 4113 Rupees
6 10 4666 Rupees
2 6 3269 Rupees
1 6 1000 Euro
```

SAMPLE OUTPUT

7

Explanation

1. Input Data Format

- First line contains an integer N (N >= 0), which is the number of transactions done by all users. Next N rows constitute the Transactional data with following attributes: -
 - Lender, Receiver, Amount, Currency (separated by space)
 - Currency can be Dollar, Rupees or Euro.
 - e.g. 3 6 3922 Dollar

2. Conversion rate for reference

?



- 1 Euro = 1.18 US Dollars
- 1 Indian Rupee = 0.013 US Dollars

3. Output Data Format

An Integer : Minimum number of transactions required to settle the balances across all users.

Time Limit:	5.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned if any testcase passes.
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, R(RScript), Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic

CODE EDITOR

Save C (gcc 5.4.0)  

```
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
```


1:1 vscode

[COMPILE & TEST](#)[SUBMIT](#)

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

 **Support:** For any queries or issues, write to raj.r.patil@aexp.com.

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