



Girls and Security Patrol

Problem Code: **PATROL**

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Isha and Suhana are on security patrol.

They start from a checkpoint and go in opposite direction for greater coverage.

Isha starts with speed U metre/second and Suhana starts with speed V metre/second.

They both have a walkie-talkie, operating for maximum distance of X metres. How long will they be able to communicate ?

Input

First line contains number of test cases.

Each test contains three integers U , V and X on a new line.

Output

For each test case output the required answer in seconds on the new line.

Your answer will be considered correct if it has an absolute error less than $1e-6$.

Constraints

- $1 \leq T \leq 1000$
- $1 \leq U, V \leq 2 * 10^9$
- $1 \leq X \leq 2000$

Example

Input :

```
3
3 3 3
6 2 4
38 47 847
```

Output :

```
0.5000000000
0.5000000000
9.9647058824
```

Author: 5★ [codopediac3 \(/users/codopediac3\)](#)

Date Added: 9-07-2017

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS,

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CodeChef (<http://www.codechef.com>) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section (<https://www.codechef.com/problems/easy>) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Upcoming Coding Contests (<http://www.codechef.com/contests#FutureContests>)
Contest Hosting (<http://www.codechef.com/hostyourcontest>)
Problem Setting (<http://www.codechef.com/problemsetting>)
CodeChef Tutorials (<http://www.codechef.com/wiki/tutorials>)
CodeChef Wiki (<https://www.codechef.com/wiki>)

Practice Problems

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Domain Registration in India (<http://www.bigrock.in/>) and Web Hosting (<http://www.bigrock.com/web-hosting/>) powered by BigRock