

Problem 2: Bizz 7

4 Points

Problem ID: `bizzfuzz`

Rank: 1

Introduction

You're at a [party](#) ([rare occurrence](#)), and the ever-popular [legally-distinct](#) game of Bizz Fuzz has popped up! Unfortunately, your memory's a bit spotty (since it's turning 4 AM), but you are not sacrificing your chances of winning just because your brain's become a [bizzy-fuzzy mess](#). Your bragging rights are on the line, after all!

Q: Why is `bizz` afraid of 7?

A: Because—

Problem Statement

You are playing Bizz Fuzz with your [friends](#). In this game, players count upwards by one in a circle, playing by the following rules:

- If the number is **not** a multiple of 3 or 5, say the number.
- If the number is a multiple of 3 but **not** 5, say “bizz”.
- If the number is a multiple of 5 but **not** 3, say “fuzz”.
- If the number is **both** a multiple of 3 and 5, say “bizzfuzz”.

For example, you and your friends can count from one as follows: 1, 2, bizz, 4, fuzz, bizz, 7, 8, bizz, fuzz, and so on.

Given strings denoting the second-to-last word W_1 , and the last word W_2 , output what you would say. If you can't figure it out (i.e. give a definitive answer), output the string `crap`.

*Note: Templates are available for this problem—and **all other problems in this contest**—in Python, Java, and C++! Find them in the [contest.zip provided at the start of the contest](#). Templates handle input and output for you, so you can just fill out a single function!*

Input Format

The first line of the input contains a single integer T denoting the number of test cases that follow.

For each test case:

- The first line contains the string denoting the second-to-last word said, W_1 .
- The second line contains the string denoting the last word said, W_2 .

Output Format

For each test case, output a single line containing a string containing the word you would say next.

Constraints

$$1 \leq T \leq 100$$

W_1 , W_2 will be strings that contain an integer from 1 to 100, `bizz`, `fuzz`, or `bizzfuzz`.

It is guaranteed W_1 , W_2 come from a valid game (i.e. the rules of the game have been followed correctly).

Sample Test Cases

Sample Input

[Download](#)

```
5
38
bizz
bizz
7
fuzz
bizz
19
fuzz
73
74
```

Sample Output

[Download](#)

```
fuzz
8
crap
bizz
bizzfuzz
```

Sample Explanations

For test case #1, since W_1 is 38, the last number is 39 (which is said aloud as `bizz` because 39 is a multiple of 3), and the next number is 40. 40 is a multiple of 5 but not of 3, so the output is `fuzz`.

For test case #2, since W_2 is 7, the next number is 8, which is neither a multiple of 3 nor 5.

For test case #3, since W_1 is `fuzz` and since W_1 is `bizz`, it is impossible to know what the next number is. For example, both {9, 10} and {24, 25} are possible sequences that produce $W_1 = \text{fuzz}$ and $W_2 = \text{bizz}$. In this case, output `crap`.

For test case #4, since W_1 is 19, the last number is 20 and the next number is 21. However, 21 is a multiple of 3 and not of 5, so the output is `bizz`.

For test case #5, the next number is 75. 75 is a multiple of both 3 and 5, so the output is `bizzfuzz`.