

## 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  $W_1$  = fuzz and  $W_2$  = 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.