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## Haskell — FizzBuzz                                                          P97301_en

In the famous article *Using FizzBuzz to Find Developers who Grok Coding* (which you can find at
http://imranontech.com/2007/01/24/using-fizzbuzz-to-find-developers-who-grok-coding/), Imran Ghory
explains that most programmers interviewed for a job cannot even write a simple program:

> On occasion you meet a developer who seems like a solid programmer. They
> know their theory, they know their language. They can have a reasonable con-
> versation about programming. But once it comes down to actually producing
> code they just don't seem to be able to do it well.
>
> After a fair bit of trial and error I've discovered that people who struggle to
> code don't just struggle on big problems, or even smallish problems (i.e. write a
> implementation of a linked list). They struggle with tiny problems. So I set out
> to develop questions that can identify this kind of developer and came up with
> a class of questions I call "FizzBuzz Questions" named after a game children
> often play (or are made to play) in schools in the UK. An example of a Fizz-Buzz
> question is the following:
>
> > *Write a program that prints the numbers from 0 to 100, but: For multi-*
> > *ples of three print 'Fizz' instead of the number, and for the multiples of five*
> > *print 'Buzz'. For numbers which are multiples of both three and five print*
> > *'FizzBuzz'.*
>
> Most good programmers should be able to write out on paper a program which
> does this in a under a couple of minutes. Want to know something scary? The
> majority of comp sci graduates can't. I've also seen self- proclaimed senior pro-
> grammers take more than 10-15 minutes to write a solution.

Prove that you really can write such a program in Haskell, and with style! (But don't be too
slow...)

### Specification

Define the function

   *fizzBuzz* :: [**Either Int String**]

that returns the infinite list of "FizzBuzz" for each integer starting from zero.

### Sample input

```
take 8 fizzBuzz
```

### Sample output

```
[Right "FizzBuzz",Left 1,Left 2,Right "Fizz",Left 4,Right "Buzz",Right "Fizz",Left 7]
```

# Problem information

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Generation : 2024-05-03 09:52:16