# Say in Scala

Readme (readme)

Test Suite (../say)

# Say

Write a program that will take a number from 0 to 999,999,999 and spell out that number in English.

## Step 1

Handle the basic case of 0 through 99.

If the input to the program is 22, then the output should be 'twenty-two'.

Your program should complain loudly if given a number outside the blessed range.

Some good test cases for this program are:

- 0
- 14
- 50
- 98
- -1
- 100

#### Extension

If you're on a Mac, shell out to Mac OS X's say program to talk out loud.

# Step 2

Implement breaking a number up into chunks of thousands.

So 1234567890 should yield a list like 1, 234, 567, and 890, while the far simpler 1000 should yield just 1 and 0.

The program must also report any values that are out of range.

### Step 3

10/9/2015 exercism.io

Now handle inserting the appropriate scale word between those chunks.

So 1234567890 should yield '1 billion 234 million 567 thousand 890'

The program must also report any values that are out of range. It's fine to stop at "trillion".

### Step 4

Put it all together to get nothing but plain English.

12345 should give twelve thousand three hundred forty-five.

The program must also report any values that are out of range.

#### Extensions

Use and (correctly) when spelling out the number in English:

- 14 becomes "fourteen".
- 100 becomes "one hundred".
- 120 becomes "one hundred and twenty".
- 1002 becomes "one thousand and two".
- 1323 becomes "one thousand three hundred and twenty-three".

The Scala exercises assume an SBT project scheme. The exercise solution source should be placed within the exercise directory/src/main/scala. The exercise unit tests can be found within the exercise directory/src/test/scala.

To run the tests simply run the command sbt test in the exercise directory.

For more detailed info about the Scala track see the help page (http://help.exercism.io/getting-started-with-scala.html).

### Source

A variation on JavaRanch CattleDrive, exercise 4a view source (http://www.javaranch.com/say.jsp)



(/) Beta

About (/about) - Donate (/donate)

GitHub (https://github.com/exercism/exercism.io) 
Twitter (https://twitter.com/exercism\_io)

10/9/2015 exercism.io

➤ Newsletter (https://tinyletter.com/exercism)

SPONSORS



(https://bugsnag.com/blog/bugsnag-loves-open-source)



(http://www.rackspace.com/)



(http://www.shopify.com/)

© 2015 Katrina Owen