

# Difference Of Squares in Scala

[Readme \(readme\)](#)[Test Suite \(../difference-of-squares\)](#)

## Difference Of Squares

Find the difference between the sum of the squares and the square of the sums of the first N natural numbers.

The square of the sum of the first ten natural numbers is,

$$1 (1 + 2 + \dots + 10)^2 = 55^2 = 3025$$

The sum of the squares of the first ten natural numbers is,

$$1 1^2 + 2^2 + \dots + 10^2 = 385$$

Hence the difference between the square of the sum of the first ten natural numbers and the sum of the squares is 2640:

$$1 3025 - 385 = 2640$$

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

Problem 6 at Project Euler view source (<http://projecteuler.net/problem=6>)


Beta



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