

Scala

Available Exercises

Accumulate (</exercises/scala/accumulate/readme>)

Implement the ``accumulate`` operation, which, given a collection and an operation to perform on each element of the collection, returns a new collection containing the result of applying that operation to each element of the input collection.

Allergies (</exercises/scala/allergies/readme>)

Write a program that, given a person's allergy score, can tell them whether or not they're allergic to a given item, and their full list of allergies.

Anagram (</exercises/scala/anagram/readme>)

Write a program that, given a word and a list of possible anagrams, selects the correct sublist.

Atbash Cipher (</exercises/scala/atbash-cipher/readme>)

Create an implementation of the atbash cipher, an ancient encryption system created in the Middle East.

Bank Account (</exercises/scala/bank-account/readme>)

Bank accounts can be accessed in different ways at the same time.

Binary (</exercises/scala/binary/readme>)

Write a program that will convert a binary number, represented as a string (e.g. '101010'), to its decimal equivalent using first principles

Binary Search Tree (</exercises/scala/binary-search-tree/readme>)

Write a program that inserts numbers and searches in a binary tree.

Bob (</exercises/scala/bob/readme>)

Bob is a lackadaisical teenager. In conversation, his responses are very limited.

Clock (</exercises/scala/clock/readme>)

Implement a clock that handles times without dates.

Connect (</exercises/scala/connect/readme>)

Compute the result for a game of Hex / Polygon

Crypto Square (</exercises/scala/crypto-square/readme>)

Implement the classic method for composing secret messages called a square code.

Custom Set (</exercises/scala/custom-set/readme>)

Create a custom set type.

Difference Of Squares (</exercises/scala/difference-of-squares/readme>)

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

Etl (</exercises/scala/etl/readme>)

We are going to do the `Transform` step of an Extract-Transform-Load.

Food Chain (</exercises/scala/food-chain/readme>)

Write a program that generates the lyrics of the song 'I Know an Old Lady Who Swallowed a Fly'

Gigasecond (</exercises/scala/gigasecond/readme>)

Write a program that will calculate the date that someone turned or will celebrate their 1 Gs anniversary.

Grade School (</exercises/scala/grade-school/readme>)

Write a small archiving program that stores students' names along with the grade that they are in.

Grains (</exercises/scala/grains/readme>)

Write a program that calculates the number of grains of wheat on a chessboard given that the number on each square doubles.

Hamming (</exercises/scala/hamming/readme>)

Write a program that can calculate the Hamming difference between two DNA strands.

Hello World (</exercises/scala/hello-world/readme>)

Write a program that greets the user by name, or by saying "Hello, World!" if no name is given.

Hexadecimal (</exercises/scala/hexadecimal/readme>)

Write a program that will convert a hexadecimal number, represented as a string (e.g. "10af8c"), to its decimal equivalent using first principles (i.e. no, you may not use built-in or external libraries to accomplish the conversion).

House (</exercises/scala/house/readme>)

Write a program that outputs the nursery rhyme 'This is the House that Jack Built'.

Kindergarten Garden (/exercises/scala/kindergarten-garden/readme)

Write a program that, given a diagram, can tell you which plants each child in the kindergarten class is responsible for.

Largest Series Product (/exercises/scala/largest-series-product/readme)

Write a program that, when given a string of digits, can calculate the largest product for a series of consecutive digits of length n.

Leap (/exercises/scala/leap/readme)

Write a program that will take a year and report if it is a leap year.

Linked List (/exercises/scala/linked-list/readme)

Write a Singly-Linked List implementation that uses the Proxy pattern

Luhn (/exercises/scala/luhn/readme)

Write a program that can take a number and determine whether or not it is valid per the Luhn formula.

Matrix (/exercises/scala/matrix/readme)

Write a program that, given a string representing a matrix of numbers, can return the rows and columns of that matrix.

Meetup (/exercises/scala/meetup/readme)

Calculate the date of meetups.

Minesweeper (/exercises/scala/minesweeper/readme)

Write a program that adds the numbers to a minesweeper board

Nth Prime (/exercises/scala/nth-prime/readme)

Write a program that can tell you what the nth prime is.

Nucleotide Count (/exercises/scala/nucleotide-count/readme)

Given a DNA string, compute how many times each nucleotide occurs in the string.

Ocr Numbers (/exercises/scala/ocr-numbers/readme)

Write a program that, given a 3 x 4 grid of pipes, underscores, and spaces, can determine which number is represented, or whether it is garbled.

Octal (/exercises/scala/octal/readme)

Write a program that will convert a octal number, represented as a string (e.g. '1735263'), to its decimal equivalent using first principles (i.e. no, you may not use built-in ruby libraries or gems to accomplish the conversion).

Palindrome Products (</exercises/scala/palindrome-products/readme>)

Write a program that can detect palindrome products in a given range.

Parallel Letter Frequency (</exercises/scala/parallel-letter-frequency/readme>)

Write a program that counts the frequency of letters in texts using parallel computation.

Pascals Triangle (</exercises/scala/pascals-triangle/readme>)

Write a program that computes Pascal's triangle up to a given number of rows.

Phone Number (</exercises/scala/phone-number/readme>)

Write a program that cleans up user-entered phone numbers so that they can be sent SMS messages.

Pig Latin (</exercises/scala/pig-latin/readme>)

Implement a program that translates from English to Pig Latin

Prime Factors (</exercises/scala/prime-factors/readme>)

Compute the prime factors of a given natural number.

Pythagorean Triplet (</exercises/scala/pythagorean-triplet/readme>)

There exists exactly one Pythagorean triplet for which $a + b + c = 1000$. Find the product $a * b * c$.

Queen Attack (</exercises/scala/queen-attack/readme>)

Write a program that positions two queens on a chess board and indicates whether or not they are positioned so that they can attack each other.

Raindrops (</exercises/scala/raindrops/readme>)

Write a program that converts a number to a string, the contents of which depends on the number's prime factors.

Rna Transcription (</exercises/scala/rna-transcription/readme>)

Write a program that, given a DNA strand, returns its RNA complement (per RNA transcription).

Robot Name (</exercises/scala/robot-name/readme>)

Write a program that manages robot factory settings.

Robot Simulator (</exercises/scala/robot-simulator/readme>)

Write a robot simulator.

Roman Numerals (</exercises/scala/roman-numerals/readme>)

Write a function to convert from normal numbers to Roman Numerals: e.g.

Saddle Points (</exercises/scala/saddle-points/readme>)

Write a program that detects saddle points in a matrix.

Say (</exercises/scala/say/readme>)

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

Scrabble Score (</exercises/scala/scrabble-score/readme>)

Write a program that, given a word, computes the scrabble score for that word.

Secret Handshake (</exercises/scala/secret-handshake/readme>)

Write a program that will take a decimal number, and convert it to the appropriate sequence of events for a secret handshake.

Series (</exercises/scala/series/readme>)

Write a program that will take a string of digits and give you all the possible consecutive number series of length `n` in that string.

Sieve (</exercises/scala/sieve/readme>)

Write a program that uses the Sieve of Eratosthenes to find all the primes from 2 up to a given number.

Simple Cipher (</exercises/scala/simple-cipher/readme>)

Implement a simple shift cipher like Caesar and a more secure substitution cipher

Space Age (</exercises/scala/space-age/readme>)

Write a program that, given an age in seconds, calculates how old someone is in terms of a given planet's solar years.

Sublist (</exercises/scala/sublist/readme>)

Write a function to determine if a list is a sublist of another list.

Triangle (</exercises/scala/triangle/readme>)

Write a program that can tell you if a triangle is equilateral, isosceles, or scalene.

Trinary (</exercises/scala/trinary/readme>)

Write a program that will convert a trinary number, represented as a string (e.g. '102012'), to its decimal equivalent using first principles.

Word Count (</exercises/scala/word-count/readme>)

Write a program that given a phrase can count the occurrences of each word in that phrase.

Wordy (/exercises/scala/wordy/readme)

Write a program that takes a word problem and returns the answer as an integer.

Getting Started

Need help getting started? You can find install documentation and resources for Scala here (<http://help.exercism.io/getting-started-with-scala.html>).



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