Kata

A programming kata is a problem to be solved. You can solve the problem any way you want, no matter the language. The important thing is to train your practice and reasoning in solving problems. It can be applied with TDD and also with other methods.

SinglePairOrOdd

returns a single integer that is pair or odd in a list of integers, where we can have only one pair and several odd or one odd and several pairs.

Reference: https://www.codewars.com/

Count the Digit

Take an integer n (n >= 0) and a digit d (0 <= d <= 9) as an integer. Square all numbers k (0 <= k <= n) between 0 and n. Count the numbers of digits d used in the writing of all the k**2. Call nb_dig (or nbDig or ...) the function taking n and d as parameters and returning this count.

Example:
n = 10, d = 1, the k*k are 0, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100 We are using the digit 1 in 1, 16, 81, 100. The total count is then 4. nb_dig(25, 1): the numbers of interest are 1, 4, 9, 10, 11, 12, 13, 14, 19, 21 which squared are 1, 16, 81, 100, 121, 144, 169, 196, 361, 441 so there are 11 digits `1` for the squares of numbers between 0 and 25.

reference: https://www.codewars.com/kata/count-the-digit/train/java