## **Project Euler**

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## Sum square difference

Problem 6

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

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

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

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

Hence the difference between the sum of the squares of the first ten natural numbers and the square of the sum is 3025-385=2640.

Find the difference between the sum of the squares of the first one hundred natural numbers and the square of the sum.