

Math Challenge #3

The sum of the cubes of the first ten natural numbers is:

$$1^3 + 2^3 + \dots + 10^3 = 3025$$

The cube of the sum of the first ten natural numbers is:

$$(1 + 2 + \dots + 10)^3 = 166375$$

Therefore, the difference between the cube of the sum of the first ten natural numbers and the sum of the cubes is:

$$166375 - 3025 = 163350$$

Write a Python program to find the difference between the cube of the sum of *the first fifty natural numbers* and the sum of the cubes.