

# Project Euler #48: Self powers

This problem is a programming version of [Problem 48](#) from [projecteuler.net](#)

The series,

$$1^1 + 2^2 + 3^3 + \dots + 10^{10} = 10405071317$$

Find the last ten digits of the series,

$$1^1 + 2^2 + 3^3 + \dots + N^N$$

**Note** You do not need to print leading zeros. See sample.

**Input Format**

Input contains an integer  $N$

**Output Format**

Print the answer corresponding to the test case.

**Constraints**

$$1 \leq N \leq 2 \times 10^6$$

**Sample Input**

10

**Sample Output**

405071317