## **Project Euler**

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## **Special Pythagorean triplet**

Problem 9

A Pythagorean triplet is a set of three natural numbers, a < b < c, for which,

$$a^2 + b^2 = c^2$$

For example,  $3^2 + 4^2 = 9 + 16 = 25 = 5^2$ .

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