## **Special Pythagorean triplet**

## Problem 9 (https://projecteuler.net/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 .

## **Solution**

In [1]:  $\triangleright$  next(a\*b\*(1000-a-b) for a in range(1. 1000) for b in range

Out[1]: 31875000