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.

if a+b+c > 1000 break 114 a+b+c == 1000 result = a o b o c