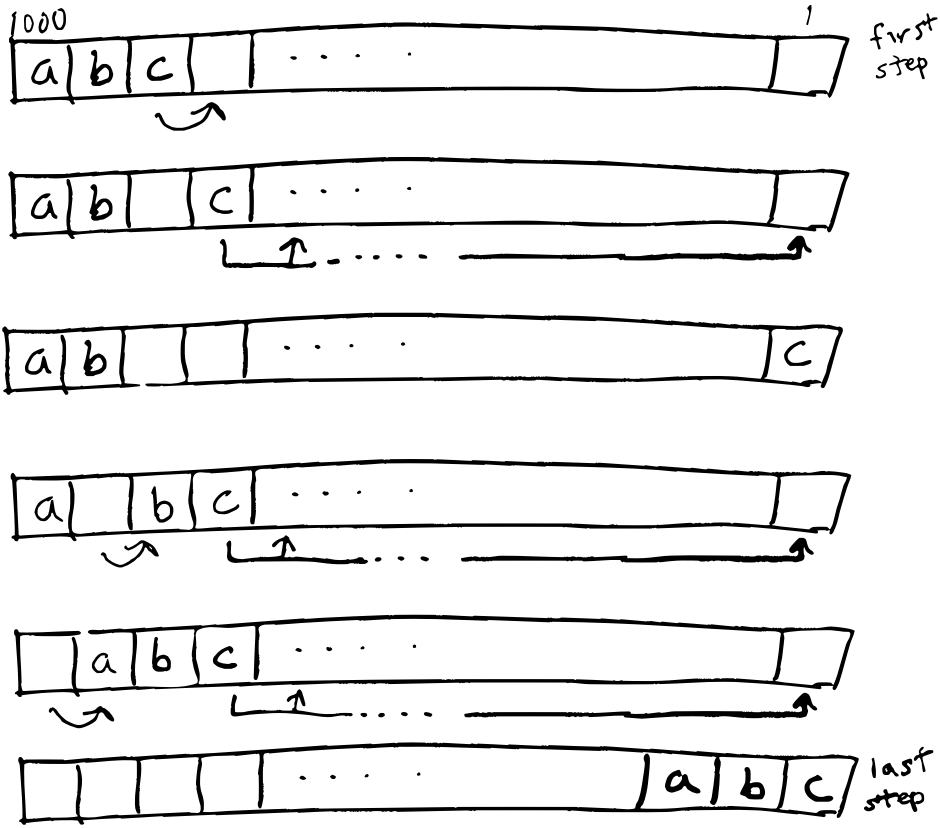
There is only one Pythagorean triplet for which $a+b+c=1000$. find the product abc.

Make a nested loop; the outer loop counts down from 1000 to 3; the one inside that counts down from 999 to 2; the innermost one counts down from 998 to 1. Return $a*b*c$ if $a+b+c=1000$ and $c^2+b^2=a^2$.



```
def pyth_triple(n)
  n.downto(3) do |a|
    (a-1).downto(2) do |b|
      (b-1).downto(1) do |c|
        return a*b*c if a+b+c == 1000 &&
                        c**2 + b**2 == a**2
      end
    end
  end
end
```