

```
public class Solution {
    public static void main(String[] args) {
        System.out.println(new Solution().run());
    }
    public String run() {
        for (int a = 1; a < 1000; a++) {
            for (int b = a + 1; b < 1000; b++) {
                int c = 1000 - a - b;
                if (a * a + b * b == c * c) // Note: This implies b < c
                    return Integer.toString(a * b * c);
            }
        }
        throw new AssertionError("Not found");
    }
}
```