
Pythagoras' theorem

P60825_en

As Beremiz reminded a sheikh, this is the famous Pythagoras' theorem:

"In any right triangle, the square of the hypotenuse equals the sum of the squares of the legs."

Input

Input consists of several cases, each with three natural numbers between 1 and 10^4 .

Output

Print a line for every case. If the three given numbers can be the sides of a right triangle, print its area (it will always be integer). Otherwise, if they can be the sides of a non-degenerate triangle (i.e., with strictly positive area), print "yes". Otherwise, print "no".

Sample input

```
3 4 5
10 17 10
100 1 2
5 6 11
```

Sample output

```
6
yes
no
no
```

Problem information

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