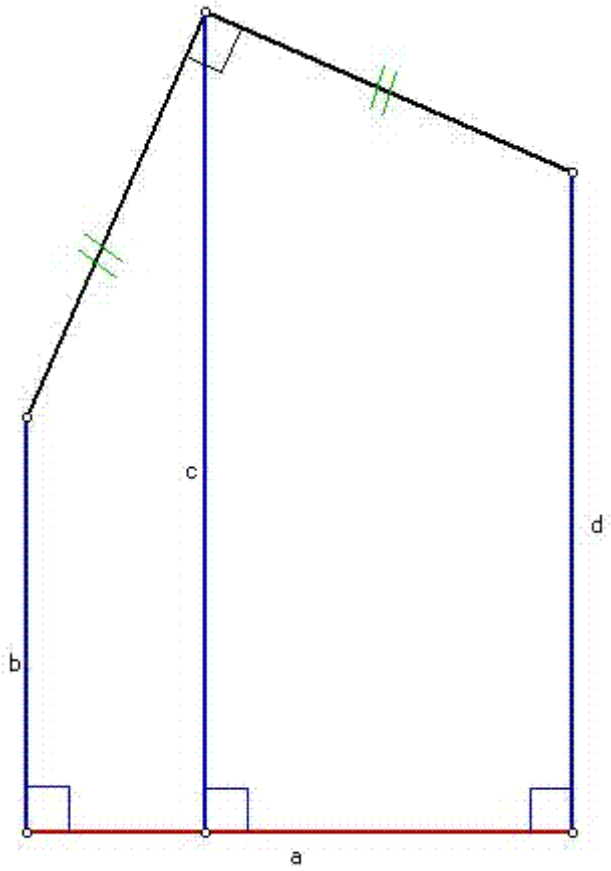
H. One Geometry Problem

Time limit: 0.23s Memory limit: 1536 MB

This is a problem of Euclidean Geometry. See the figure below.



Your task is as follows: given the lengths of segments b, c, and d, calculate the length of segment a.

Input

The input begins with the number t of test cases in a single line (t<=300). In each of the next t lines there are three integers b, c and d (0 <= b, c and d <= 10^{200} ; b,d < c) separated by a space.

Output

For every test case print the length of the segment a, one number per line.

Example

Input:
2
3 8 5
10 18 12

Output:
8
14

My own Resource