Is Triangle

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Given **three numbers** A, B and C that donate the lengths of the three sides of a triangle. Determine whether this triangle is **valid** or **not** and if it is valid print its area.

Input

Only one line contains three numbers A, B and C ($1 \leq A, B, C \leq 10^3$).

Output

If the three sides preform a triangle print "**Valid**" and the area of the triangle in separate lines otherwise, print "**Invalid**".

Don't print any extra spaces.

Examples

standard input	standard output
7 10 5	Valid 16.248077
3 4 1	Invalid

Note

Your answer will be considered correct if its absolute or relative error does not exceed 10^{-4} .