Area of a Triangle

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	512 megabytes

Cheburashka told Gena that he drew a right-angled triangle and asked for help in finding its area. He provided Gena with the length of the hypotenuse and the height drawn to it.

Help Gena calculate the area of such a triangle, or tell him that Cheburashka made a mistake and that such a triangle does not exist.

Input

The first line contains one integer c ($1 \le c \le 10^4$) — the length of the hypotenuse.

The second line contains one integer h ($1 \le h \le 10^4$) — the length of the height drawn to the hypotenuse.

Output

Print the area of the triangle. If such a triangle does not exist, print -1.

Examples

standard input	standard output
7 3	10.5
10 6	-1

Note

An example of the triangle from the first example.

