Problem A. Counterclockwise Rotation

Time limit   2000 ms
Mem limit   1048576 kB

Problem Statement

In an xy-coordinate plane whose x-axis is oriented to the right and whose y-axis is oriented upwards, rotate a point (a, b) around the origin d degrees counterclockwise and find the new coordinates of the point.

Constraints

- $-1000 \le a, b \le 1000$
- $1 \le d \le 360$
- All values in input are integers.

Input

Input is given from Standard Input in the following format:

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a  b  d
```

Output

Let the new coordinates of the point be (a', b'). Print a' and b' in this order, with a space in between.
Your output will be considered correct when, for each value printed, the absolute or relative error from the answer is at most 10^{-6}.

Sample 1

Input	Output
2 2 180	-2 -2

When $(2, 2)$ is rotated around the origin 180 degrees counterclockwise, it becomes the symmetric point of $(2, 2)$ with respect to the origin, which is $(-2, -2)$.

Sample 2

Input	Output
5 0 120	-2.4999999999999911182 4.3301270189221936

When $(5, 0)$ is rotated around the origin 120 degrees counterclockwise, it becomes $\left(-\frac{5}{2}, \frac{5\sqrt{3}}{2}\right)$.
This sample output does not precisely match these values, but the errors are small enough to be considered correct.

Sample 3

Input	Output
0 0 11	0.0000000000000000000 0.0000000000000000000

Since (a, b) is the origin (the center of rotation), a rotation does not change its coordinates.

Sample 4

Input	Output
15 5 360	15.0000000000000177636 4.9999999999999955

A 360-degree rotation does not change the coordinates of a point.

Sample 5

Input	Output
-505 191 278	118.85878514480690171240 526.6674369978654