## I. Rotation

time limit per test: 2 seconds memory limit per test: 64 megabytes input: standard input

output: standard output

Ehsan loves geometry! Especially he likes to rotate points!

Given a point in the plane, Ehsan likes to rotate it by k degrees (counter-clockwise), around the <u>origin</u>. What is the result of this rotation?

## Input

A single integer k ( $0 \le k < 360$ ) is given in the first line. Two integer numbers x and y are given in the second line ( $-1390 \le x, y \le 1390$ ).

## **Output**

Write two numbers. The result of the rotation. Your answer must have a relative error less than  $10^{-1}$ .

## **Examples**

input
90 1 1
output
-1.00000000 1.00000000

input	
180 1 1390	
output	
-1.00000000 -1390.00000000	