Trigonometry   P37760_en

Write a program that reads a sequence of angles in degrees, and prints their sine and their cosine.

Input

Input consists of a sequence of real numbers that represent angles in degrees.

Output

For each given angle, print a line with its sine and its cosine. Print all the numbers with six digits after the decimal point.

Observation

Use the procedures that your programming language already provides to compute sines and cosines.

Sample input 1	Sample output 1
90	1.000000 0.000000
450	1.000000 0.000000
60	0.866025 0.500000
10.5	0.182236 0.983255

Problem information

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