

Fun With Triangles

ZPRAC-16-17-Lab2

[30 points]

Shivam is a geek who loves equilateral triangles and does all sorts of computation on it. Write a C program for him which calculates the length of the altitude and the area of an equilateral triangle given the length of its side.

Note: Use $\sqrt{3}=1.73205$

Input:

Input will be a single real number i.e. length of the side ($0 < a \leq 10^4$).

Output:

Print the length of the altitude and the area of the given triangle (upto 2 decimal places)

Example:

Input:

1

Output:

0.87 0.43