Another Dimension
Problem ID: a01p05anotherdimension

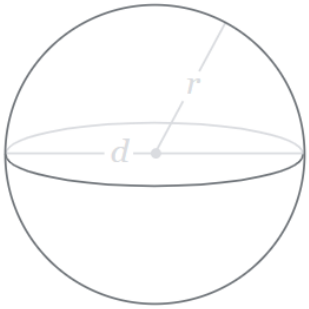
Time to take your brains to another dimension. Pay close attention!

The volume of a sphere can be calculated as $V = \frac{4}{3}\pi r^3$.

Now imagine we have a hemisphere, also known as a half-sphere, so a sphere where one half has been removed.

Given the diameter of the original sphere, output the volume of the half-sphere. Note that the diameter of a sphere is defined as double the radius of the same sphere.

Hint: you can use the `pi` variable in the `math` module.



A sphere

Input

Input consists of one line with one floating point number d, the diameter of the sphere, where $0 \leq d \leq 1000$. It is guaranteed that the number is given with at most two digits after the decimal point.

Output

Output consists of one line with one floating point number, the volume of the half-sphere. The output number should have an absolute or relative error of at most 10^{-9}.

Sample Input 1	Sample Output 1
4.8	28.952917895483527

Sample Input 2	Sample Output 2
6	56.548667764616269

Sample Input 3	Sample Output 3
20	2094.395102393195430

Sample Input 4	Sample Output 4
2	2.094395102393195