# Problem F. Circle

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|---|---|
| **Time Limit** | 1000 ms |
| **Mem Limit** | 131072 kB |
| **OS** | Linux |

Write a program which calculates the area and circumference of a circle for given radius $r$.

# Input

A real number $r$ is given.

# Output

Print the area and circumference of the circle in a line. Put a single space between them.

The output should not contain an absolute error greater than $10^{-5}$.

# Constraints

- $0 < r < 10000$

| Input | Output |
|---|---|
| 2 | 12.566371 12.566371 |

| Input | Output |
|---|---|
| 3 | 28.274334 18.849556 |