

## C. Odds of Oddness

time limit per test: 1 second  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

Given is an integer  $N$ .

Karemo chooses an integer  $A$  from 1 to  $N$  with equal probability.

Find the probability that  $A$  is odd.

### Input

Only one integer  $N$  ( $1 \leq N \leq 10^{12}$ ).

### Output

Print the probability that  $A$  is odd.

**Note:** you must print 6 digits after the decimal point.

### Examples

<b>input</b>	<a href="#">Copy</a>
4	
<b>output</b>	<a href="#">Copy</a>
0.500000	

  

<b>input</b>	<a href="#">Copy</a>
5	
<b>output</b>	<a href="#">Copy</a>
0.600000	

  

<b>input</b>	<a href="#">Copy</a>
1	
<b>output</b>	<a href="#">Copy</a>
1.000000	

### ICPC Assiut Advanced Newcomers 2023

Private

Participant



#### → Group Contests

- ICPC Assiut Advanced Newcomers 2023 Contest 5
- ICPC Assiut Advanced Newcomers 2023 Contest 4
- ICPC Assiut Advanced Newcomers 2023 Contest 3
- ICPC Assiut Advanced Newcomers Practice #1
- ICPC Assiut Advanced Newcomers 2023 Contest 2
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 2
- ICPC Assiut Advanced Newcomers 2023 Contest 1
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

### ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

Finished

Practice



#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest](#)

#### → Submit?

Language: [GNU G++20 11.2.0 \(64 bit, w\)](#)