# **Root of All**

# **Problem Description**

Given a number N, output

$$\sum_{i=1}^{N} \sqrt{i}$$

#### Note

Your answer should be correct upto 6 decimal places. That means the output and the correct answer should match exactly atleast till the 6th digit after the decimal point.

Mathematically, if your output is A and the correct answer is B, then

#### **Constraints**

 $0 < N \le 1e5$ 

### **Input Format**

A single integer N

# **Output Format**

The answer as described above, correct upto atleast 6 decimal places

# Sample Input 1

4

# Sample Output 1

6.14626437

# Sample Input 2

15

### Sample Output 2

40.46919660