



exponential function

- Time limit: 1 second
- Memory limit: 128 MB

Write a program that calculates e^x with the help of the following relationship (up to three decimal places). This app is the amount x and the number of series sentences, n , receives from the input.

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

Input

In the first line of the number x And in the next line, the number n It will be given to you.

$$0 \leq x \leq 1000$$

Output

In the only output line the value e^x Print to three decimal places.



Questions

100	Factorial
100	exponential function
100	Idle and tasteless
100	Working with decimal numbers
100	B.M.M. and K.M.M
100	Genghis and copyright
150	Coordinate snail
200	very first

All submissions

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Scoreboard

Example

Sample input 1

```
5
10
```

Sample output 1

```
143.689
```

Sample input 2

```
3
15
```

Sample output 2

```
20.086
```

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