exponential function

- Time limit: 1 second

- Memory limit: 128 MB

Write a program that e^x calculate 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.

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

Input

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

$$0 \leq , \_x \leq 1\,0\,0\,0$$

Output

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

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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