
Equation

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given two numbers X and N . Print the result of the following equation:

$$S = (X^0 - 1) + (X^2) + (X^4) + (X^6) + + (X^N)$$

Note: Solve this problem using function and don't use built-in function.

Input

Only one line contains two numbers X and N ($0 \leq X, N \leq 10$)

Output

Print the equation result S .

Example

standard input	standard output
5 5	650

Note

First Test :

$$(5^0 - 1) + 5^2 + 5^4 = 0 + 25 + 625 = 650.$$