
Bars (3)**P10694_en**

Write a program that reads a natural number n , and prints $2^n - 1$ bars of asterisks, following the pattern that can be deduced from the examples.

Input

Input consists of a natural number $n > 0$.

Output

Print $2^n - 1$ lines, following the pattern that can be deduced from the examples.

Sample input 1

1

Sample output 1

*

Sample input 2

2

Sample output 2

*
*
**

Sample input 3

3

Sample output 3

*
*
**
*
*
**

Sample input 4

4

Sample output 4

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Problem information

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