Bars (2)   P79860_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

```
****
***
**
*
*
**
*
*
***
**
*
*
**
*
*
```

Problem information

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