Rhombus. X41913_en

Write a program that, given a number n, prints a rhombus of size n.

Input

A natural number $n \geq 1$.

Output

Print $2 * n - 1$ lines (each followed by a newline), as shown in the examples. The asterisks on the nth line should not be preceeded by any spaces.

Observation

Sample input 1

4

Sample output 1

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

Sample input 2

7

Sample output 2

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

Problem information

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