

Rhombus

Enter the length of rhombus's side. Print out the rhombus.

Example

Even if the side of the rhombus is 3, the form of rhombus is as below:

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

Input

Contain the side of rhombus.

Constraints

- $0 < n \leq 100$

Output

Print out the rhombus.

Example

Input:

3

Output:

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