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## Queens (2)

P17921\_en

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Write a program to print all the ways to place  $n$  queens on an  $n \times n$  chessboard so that no queen threatens another queen.

### Input

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

### Output

Print all the ways to put  $n$  queens on an  $n \times n$  chessboard so that no queen threatens another queen. The queens must be marked with a 'Q', and the empty positions with a dot. Print an empty line after each board.

### Information about the checker

You can print the solutions to this exercise in any order.

#### Sample input 1

4

#### Sample output 1

```
.Q..  
...Q  
Q...  
..Q.  
  
..Q.  
Q...  
...Q  
.Q..
```

#### Sample input 2

3

#### Sample output 2

### Problem information

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