
Queens (2)

P17921_en

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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