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CS1010E Practice Exercise: Attacking Queens

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Attacking Queens

The N-queens puzzle is the problem of placing n queens on a n-by-n so that no two queens attack each other. Two queens attack if they lie on the same row, same column or same diagonal.

Write a program that determines if a given n-queens puzzle ($4 \le n < 10$) is attacking. The chessboard is represented as follows:

.Q.. ...Q Q... ..Q.

where 'Q' represents the queen, and '.' represents empty. You may assume that there are exactly n queens on the chessboard.

Hint: Read each row as a string.

Sample Runs

The following are sample runs of the program. User input is <u>underlined</u>. Ensure that the last line of output is followed by a newline character.

• Sample run #1:

Enter n: 4
.0..
...0
0...
...0
0...
..0.
Not attacking

• Sample run #2:

Enter n: 4
.0..
...0
0...
.0..
Attacking

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