CodeCrunch

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 ≤ 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 underlined. Ensure that the last line of output is followed by a newline character.

- Sample run #1:

```
Enter n: 4
.Q..
...Q
Q...
..Q.
Not attacking
```

- Sample run #2:

```
Enter n: 4
.Q..
...Q
Q...
.Q..
Attacking
```

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