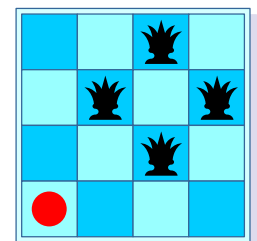
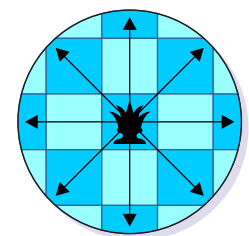


It's quite easy to place four chess queens on a 4x4 board to leave one unattacked vacant cell - see the diagram at right. The only unattacked cell is marked with a red dot. This cell can't be reached by any of the queens according to their allowed moves.



Your task is to place five chess queens on a 5x5 board in such a way that a maximum number of vacant cells are unattacked.

By the way, if you've forgotten the chess queen's moves the diagram at left will remind it to you. It shows that you may move the queen in any of the eight directions and on any number of the vacant cells.



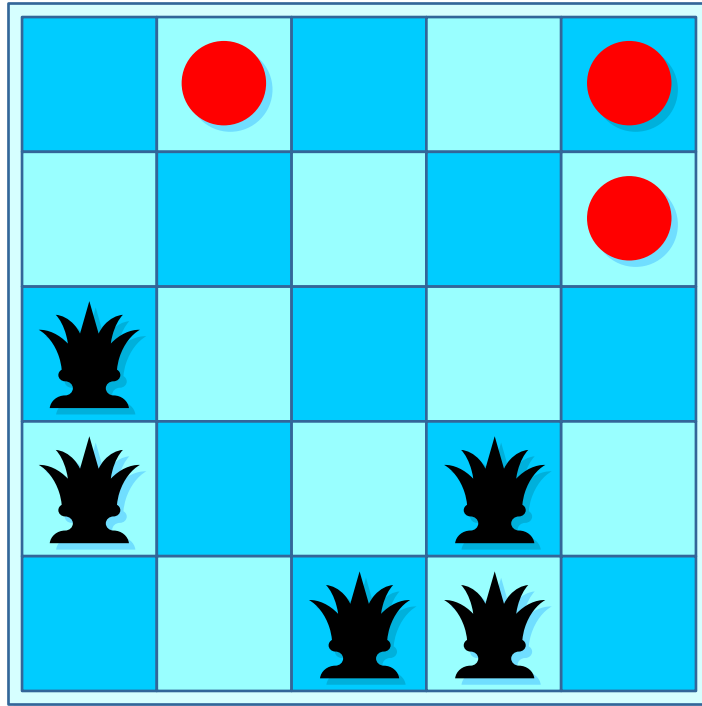
For more convenient solving you may print out the board, and use five quarters as queens and some pennies to mark the unattacked vacant cells.

Unattacked Cells

Solution

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The maximum number of unattacked vacant cells that can be reached for five queens on a 5x5 board is three. The unique solution (except for rotations and reflections) is shown in the illustration. The unattacked vacant cells are marked with red dots.

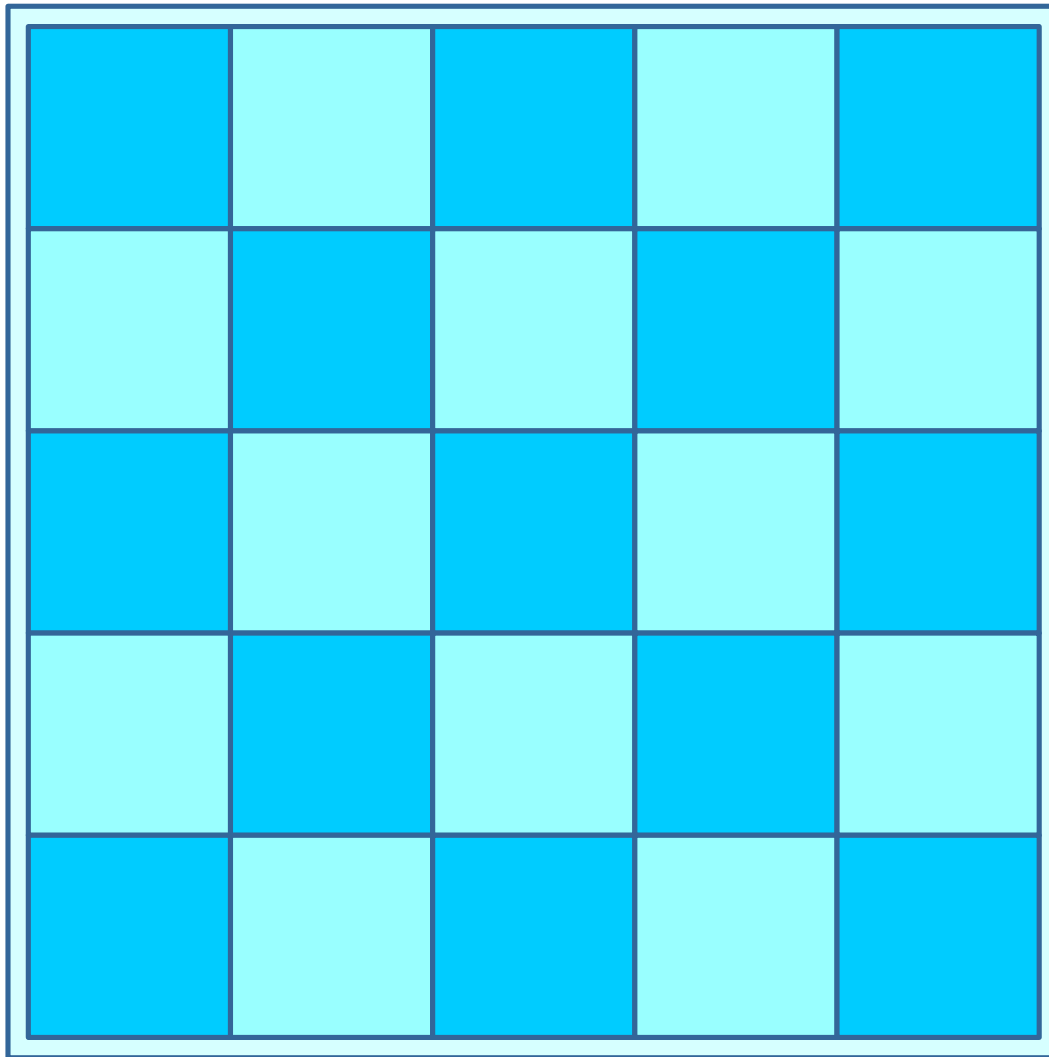
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Unattacked Cells

Pieces

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<p>1 x 1</p>	<p>2 x 5</p>	<p>F</p>
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To produce the pieces first print them out. Then follow the diagram shown above - from step 1 to step F (finish).

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