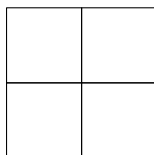


L-Shaped Tiles

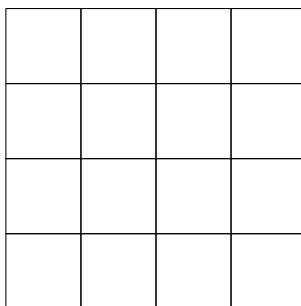
Today we ask the question, can all but one square of any 2^n by 2^n board be covered by L-shaped tiles? We will ponder this question using a set of 22 puzzle pieces: 1 square and 21 L-shaped pieces.



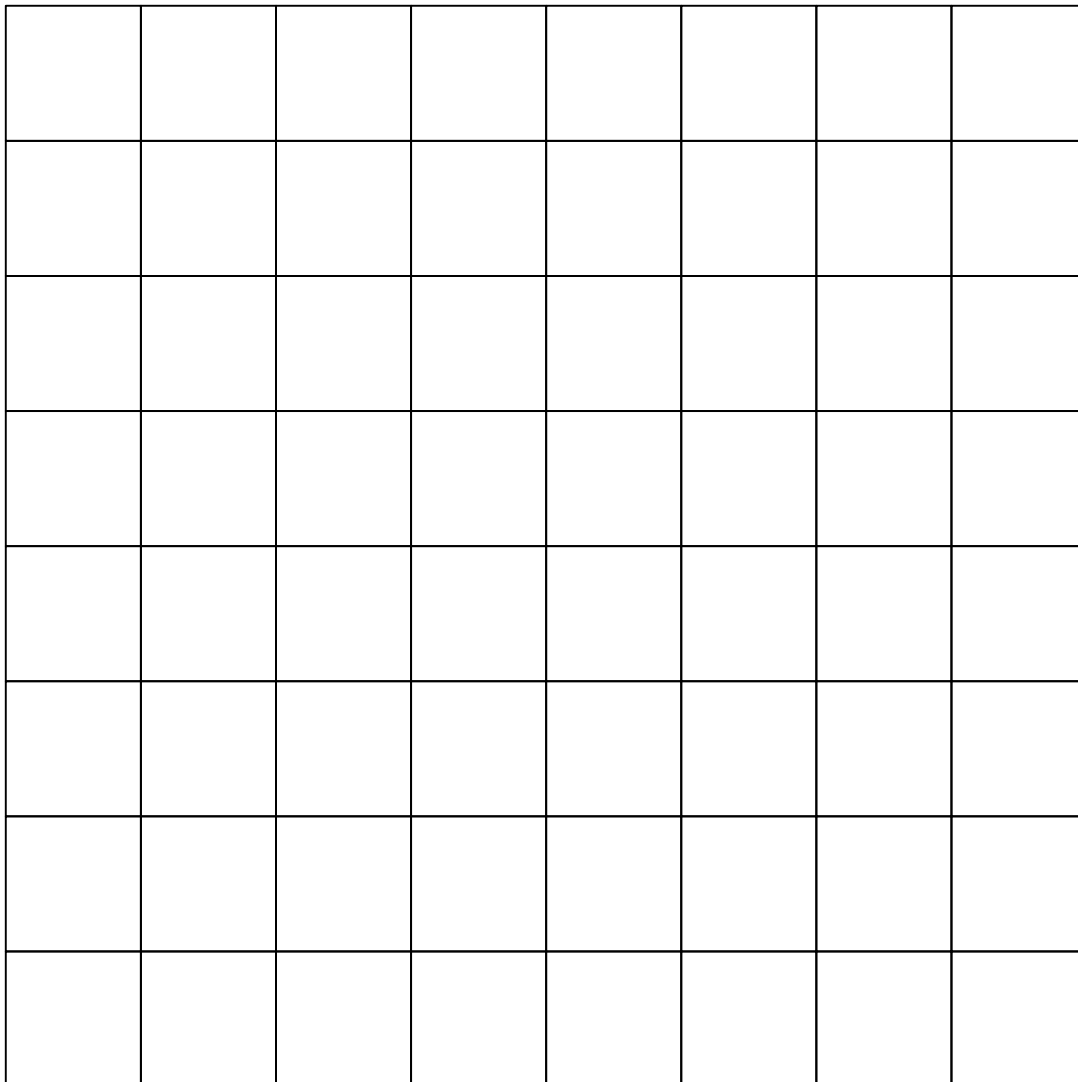
1. Use **1** square tile and **1** L-shaped tile to make a **2 by 2** square. Color in your solution below.



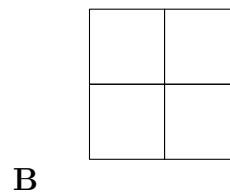
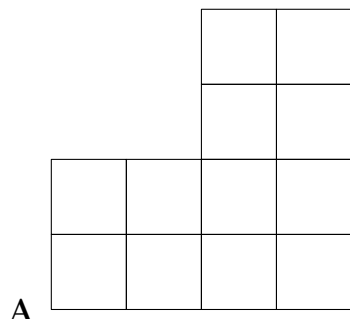
2. Use **1** square tile and **5** L-shaped tiles to make a **4 by 4** square. Color in your solution below.



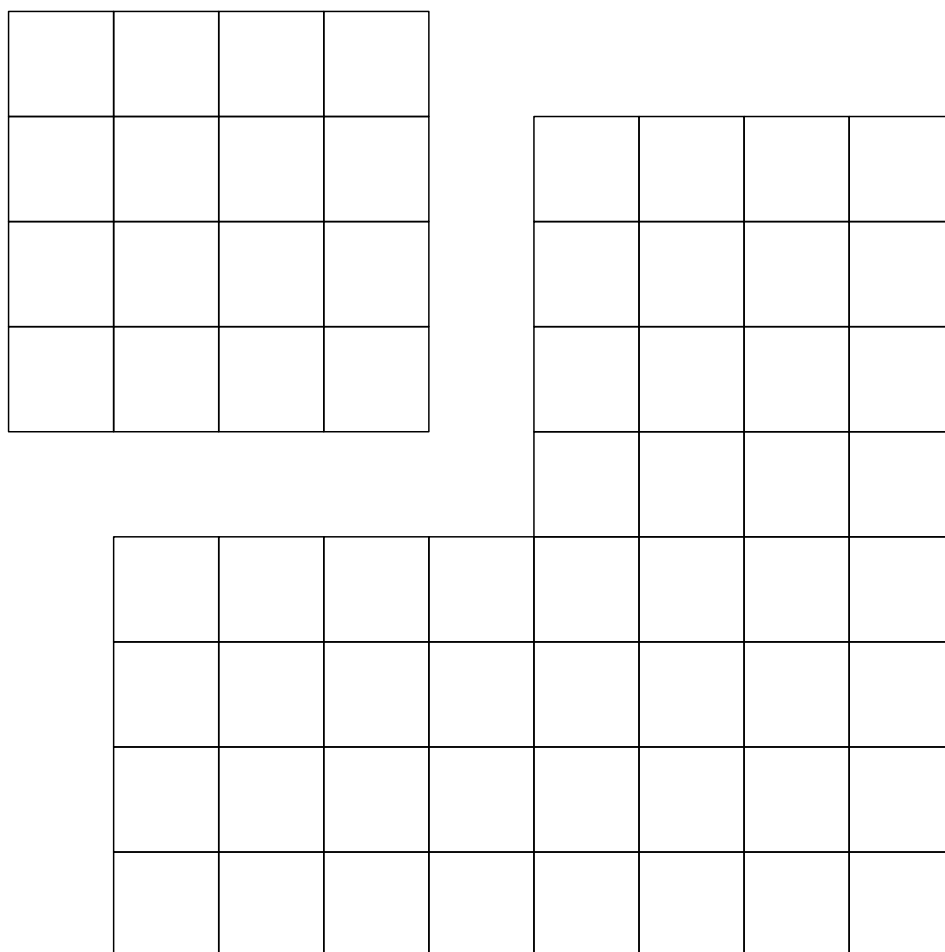
3. Use **1** square tile and **21** L-shaped tiles to make an **8 by 8** square. Color in your solution below.



4. Can you use **4** L-tiles to make a single larger L, lets call it piece A? Color in your solution below.
5. Can you use **1** square and **1** L-tile to form a square, lets call it B?



6. Can you use **4** of your A pieces to make an even larger L? Can you use **1** of your A pieces and **1** B piece to form a square? Color in your solution below.



Solution to L-Shaped Tiles: Induction

