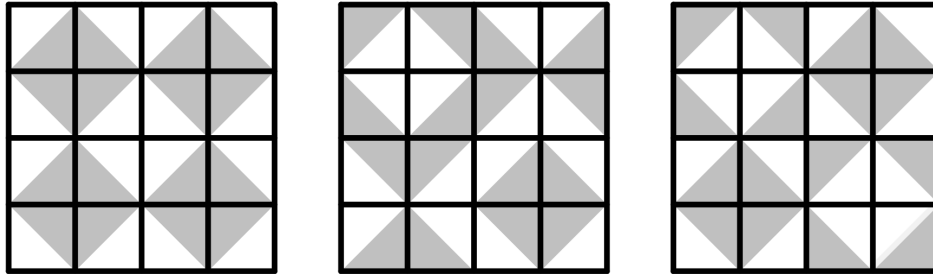


Kaleidoscopic Diamonds



Problem. Pick a pair of diagrams above and show it is possible to turn one into the other using the following three kinds of moves:

- Swapping a pair of rows,
- Swapping a pair of columns,
- Swapping a pair of blocks.

(The blocks are the 2×2 quadrants in the four corners. In fact, it is possible to convert between any of the three pictures using these moves.)

Try online here: <http://finitegeometry.org/sc/16/kal/index.html>



Submit your solution online by scanning QR code and filling out the form, or submit at

sites.google.com/unomaha.edu/unopow

A photo of handwritten work is fine. You can also turn in solutions physically at the UNO math department's mail room (located on the second floor of the Durham Science Center).