



Instructions for Modeling the Optical Processor

This optical processor is represented by dominoes!

You will see a series of colored inputs and colored outputs.

- Each input is the starting point for a line of dominoes that matches its color.
- Each colored line of dominoes represents an optical pathway of a specific wavelength.

Lines of dominoes can change color only by being combined or split using the provided mixers and splitters.

A line of dominoes can be split into two lines of the same color at any time.

Starting at the inputs, use colored lines of dominoes in combination with your mixers and splitters to draw pathways of the correct colors to all of the outputs.

If needed, you may use the black dominoes to construct bridges to “jump” one line of dominoes over another.

Your lines of dominoes must stay within the area bounded by the inputs and outputs.

When your pathway is complete, knock down the first domino on each input simultaneously. Hopefully, the lines of dominoes should topple all the way to the outputs!

Have fun!

Examples of Correct and Incorrect Paths

