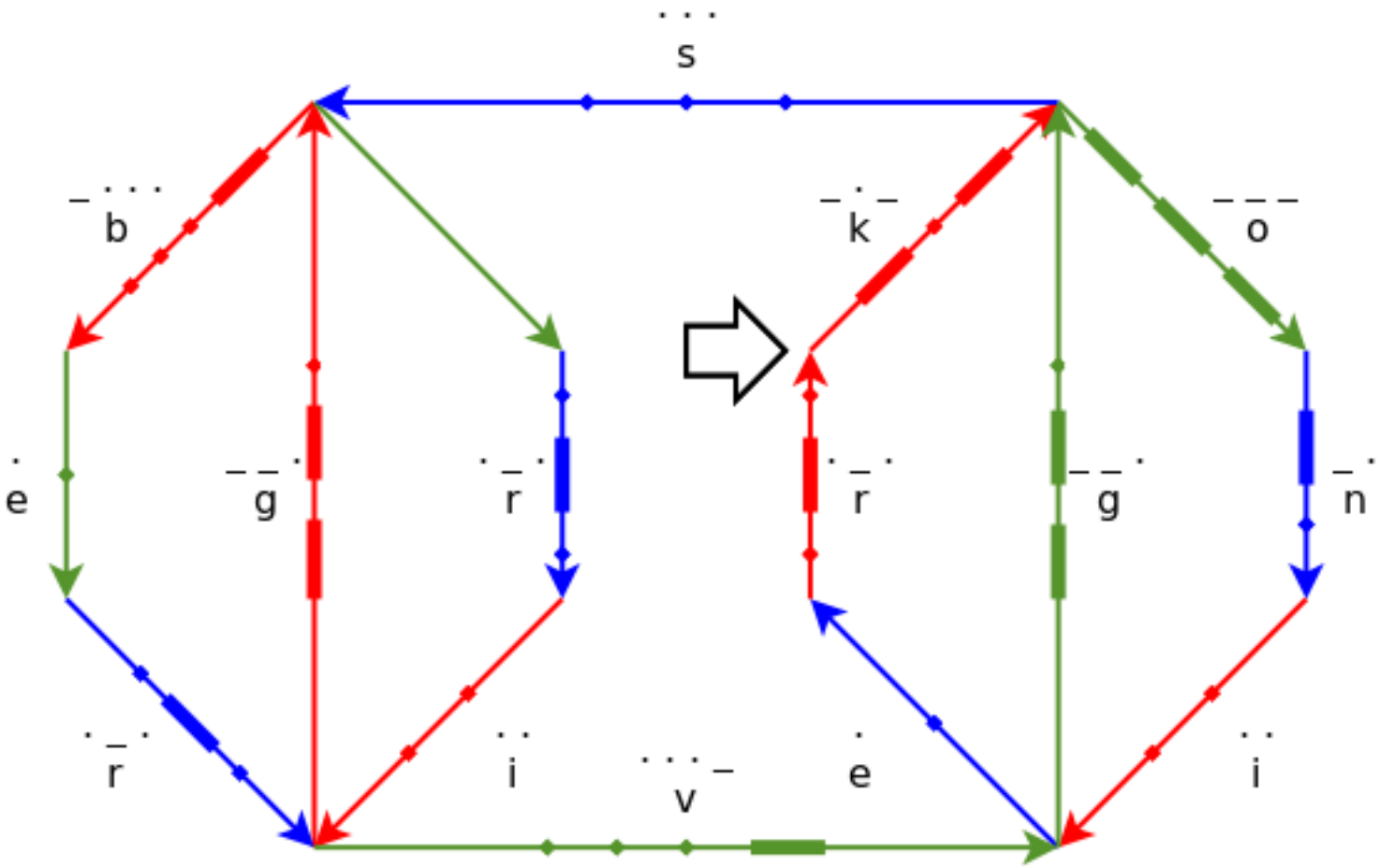
Bridges of Konigsberg 2016

There are 16 bridges on the picture, 5 green, 5 blue and 6 red. Since bridge colors in a walk must alternate strictly, such bridge numbers are possible only if the walk starts and ends with a red bridge.

All vertices in the graph formed by the bridges have even degree, so the walk must start and end in the same vertex. There is a vertex which can be visited only as the first/last vertex of the walk: it's the one which has only two red bridges connected to it. It's also easy to figure out which bridge is the first one in the walk: if vertical red bridge is taken first, it has no green bridge to follow, so the first bridge in the walk is the red diagonal one.

After that, the walk is straightforward to do, remembering the rule of alternating bridge colors.

Finally, to decode the message, notice Morse code on the bridges. Read the code on each bridge in the same direction as it is walked to get letters of the message, and read the letters in the order in which the bridges are walked, to get the clue: KONIGSBERG RIVER. Any article related to the Bridges of Konigsberg problem will reveal the name of the river on which the bridges stood.



Answer: PREGEL