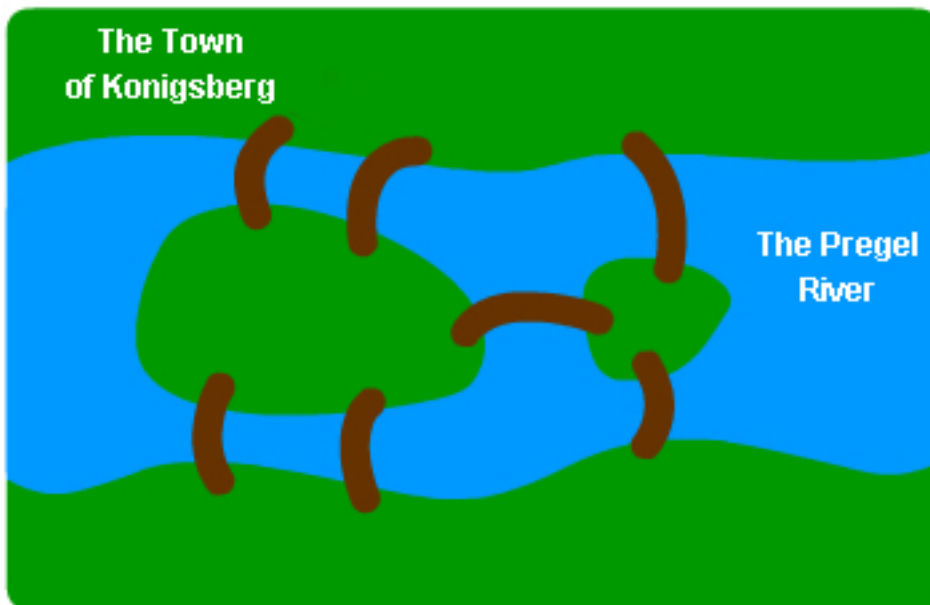


The Königsberg Bridges problem

Is it true that there isn't a path that crosses all the bridges of Königsberg exactly once, and returning us to our starting point?

Use the picture below to draw such paths. Can you find one?



Suppose you removed one or more of the bridges.

- Would you then be able to trace a path that crosses all the remaining bridges exactly once, returning to your starting point?
- How many bridges would you have to remove?
- Does it matter which bridge(s) you remove?

Suppose you added one or more new bridges.

- Would you then be able to trace a path that crosses all the bridges exactly once, returning to your starting point?
- How many bridges would you have to add?
- Does it matter where the new bridges are added?