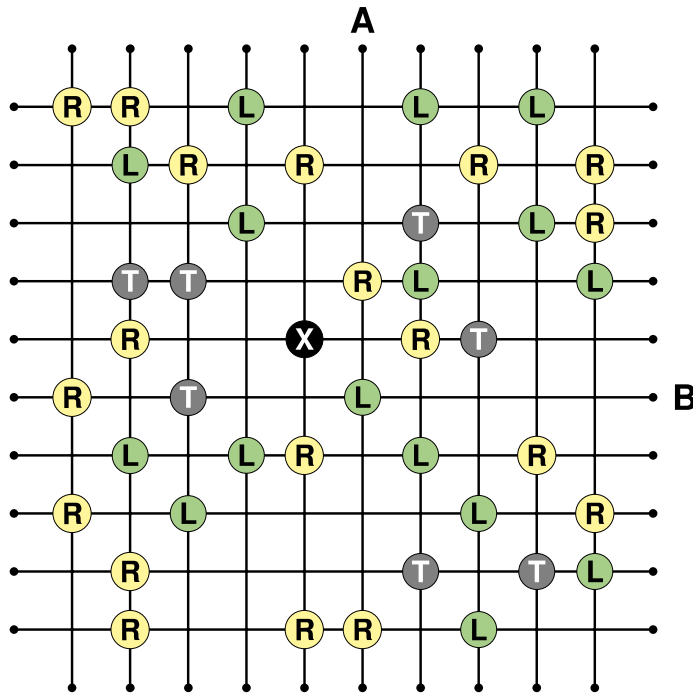


X marks the spot

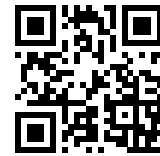
Extend your algorithmic thinking

A robot is programmed to follow the grid lines shown below, starting at one of the small dots on the boundary. Whenever it comes to an intersection marked **R**, **L** or **T**, it immediately makes a 90° right turn, 90° left turn or 180° about turn, respectively, and then continues on its way along the grid. If the robot arrives at one of the boundary dots or the intersection marked **X**, it stops.



- A. The robot starts at the boundary dot marked **A**. How many right turns does it make before stopping?
- B. The robot starts at the boundary dot marked **B**. How many times does it pass through an empty intersection before stopping?
- C. How many starting positions result in the robot arriving at **X**?

Find the solution



Challenge your thinking



BEBRAS COMPUTATIONAL THINKING CHALLENGE

Round 1: 23 April to 9 May

Round 2: 8 to 24 October



COMPUTATIONAL AND ALGORITHMIC THINKING

21 to 23 May



OXFORD UNIVERSITY COMPUTING CHALLENGE

Round 1: 18 to 20 June

Round 2: 1 August



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29 August

Don't have your phone? Take one to find the solution

