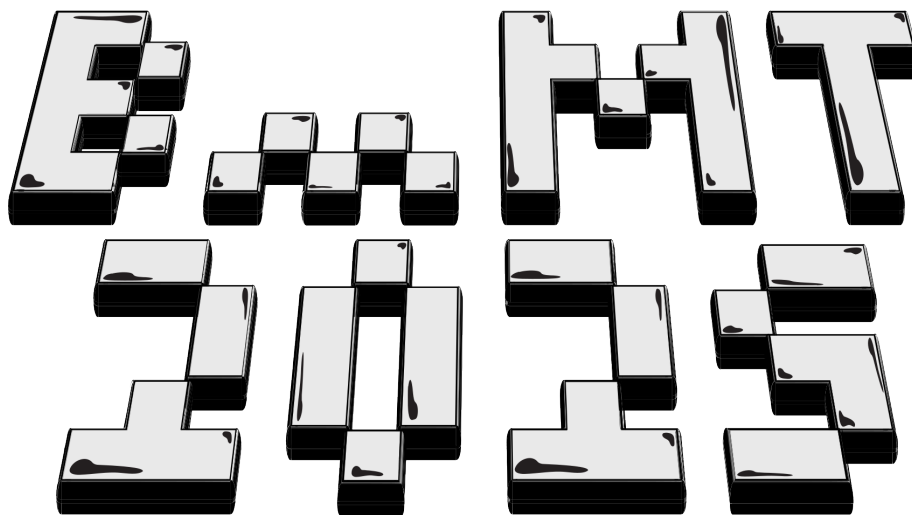


BmMT 2025 Online

Puzzle Round Problems



June 7, 2025

Time limit: 15 minutes for reading; 60 minutes for solving.

Instructions: For this test, you work in teams of up to five to solve a set of puzzles. You will have 15 minutes to read the rules of the Puzzle Round and to strategize. Afterwards, you will have 60 minutes to solve the puzzles.

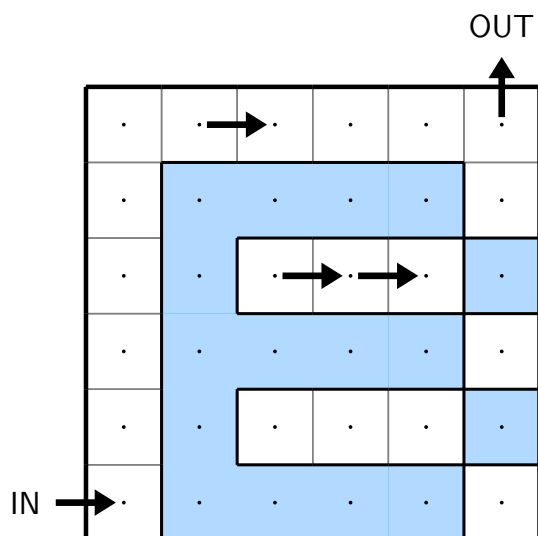
No calculators.

Introduction

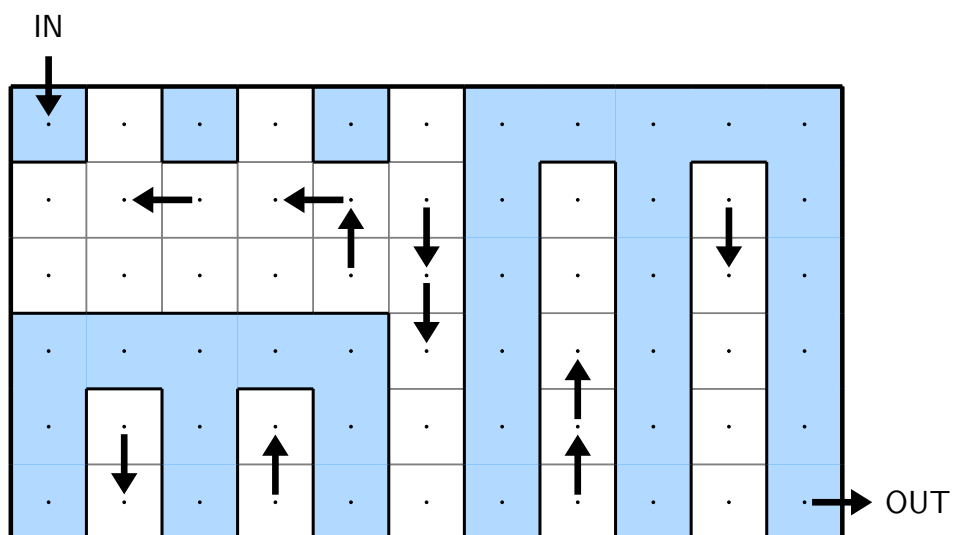
There are a total of **406** points available on this Puzzle Round.

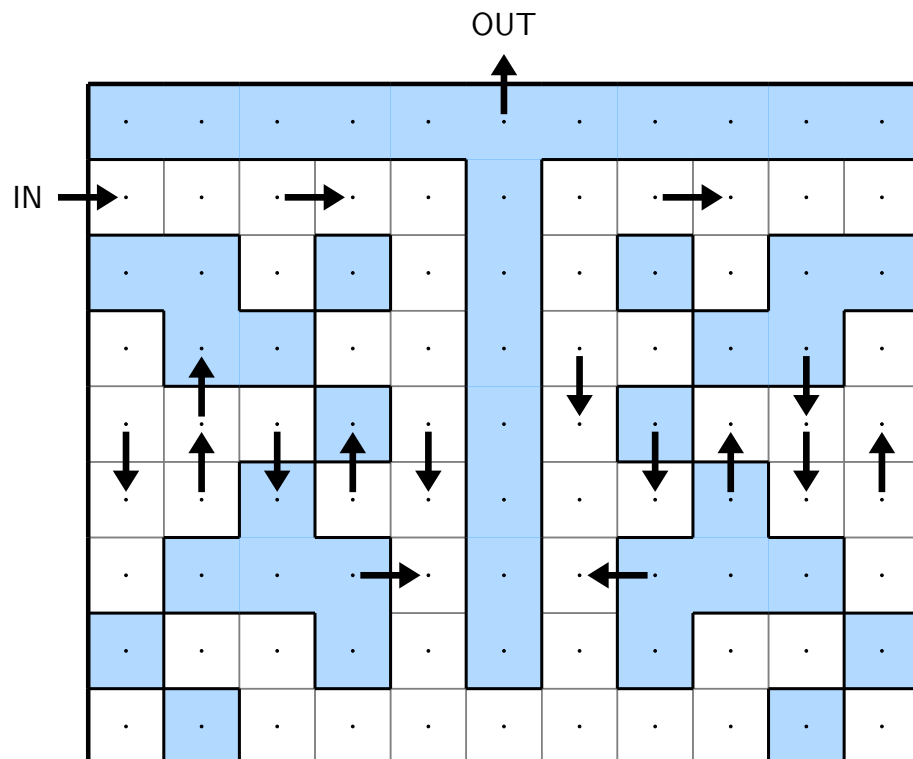
Basic

Basic 1 (20 points)



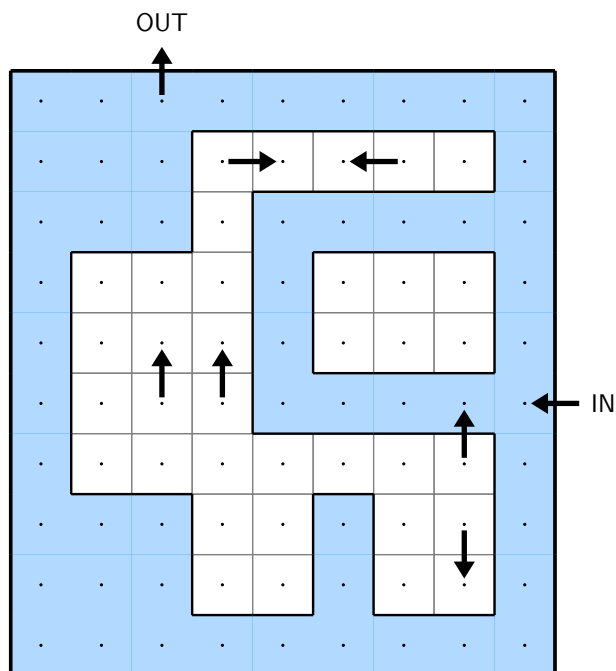
Basic 2 (22 points)



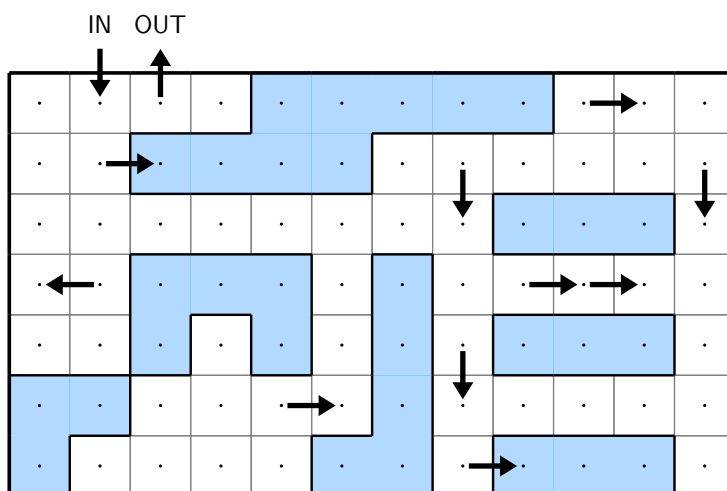
Basic 3 (24 points)

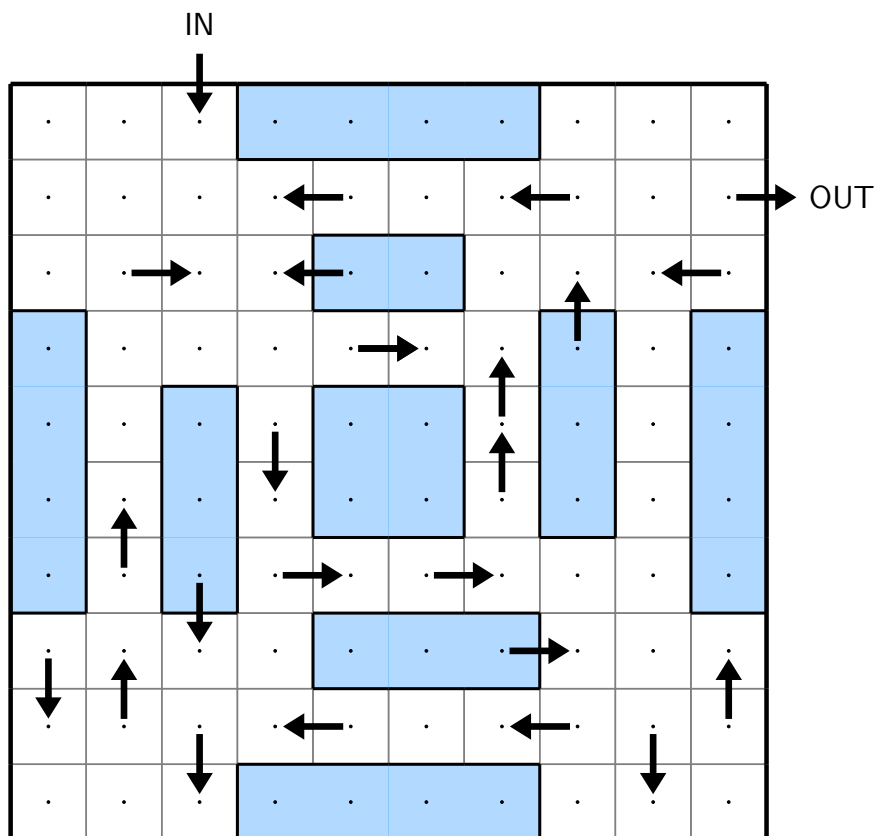
World Tour

World Tour 1 (21 points)



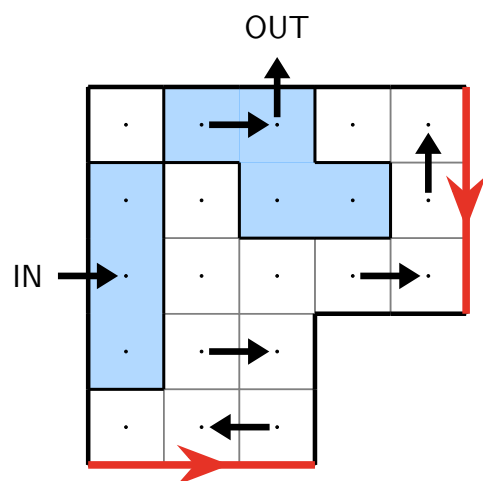
World Tour 2 (23 points)



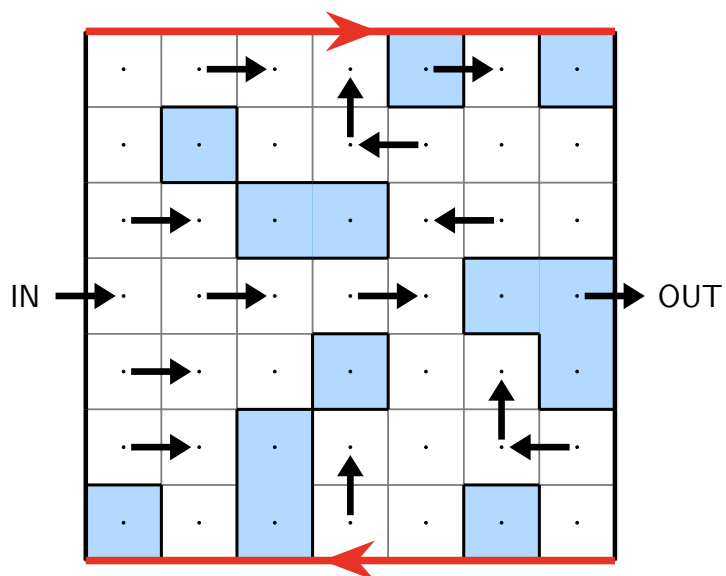
World Tour 3 (25 points)

Drive-Thru

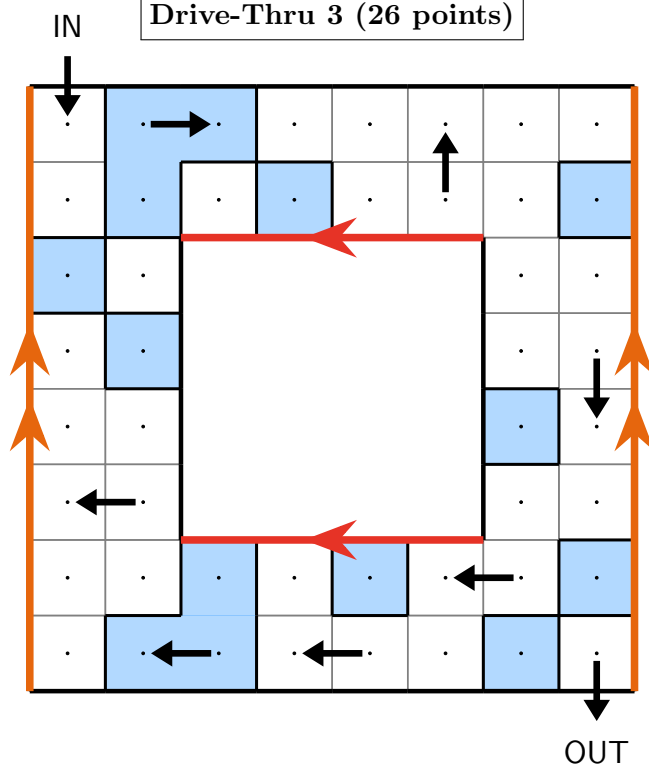
Drive-Thru 1 (22 points)



Drive-Thru 2 (24 points)

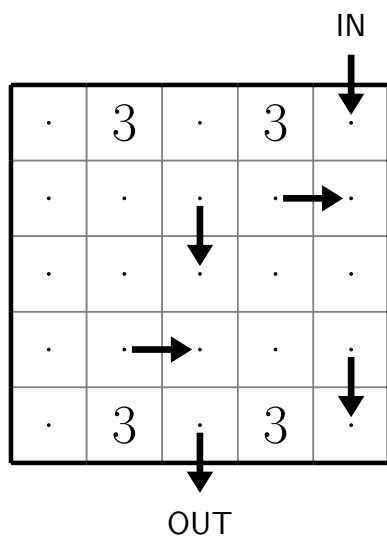


Drive-Thru 3 (26 points)

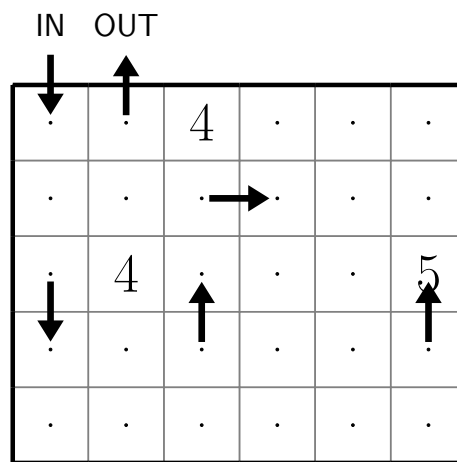


Black Ice

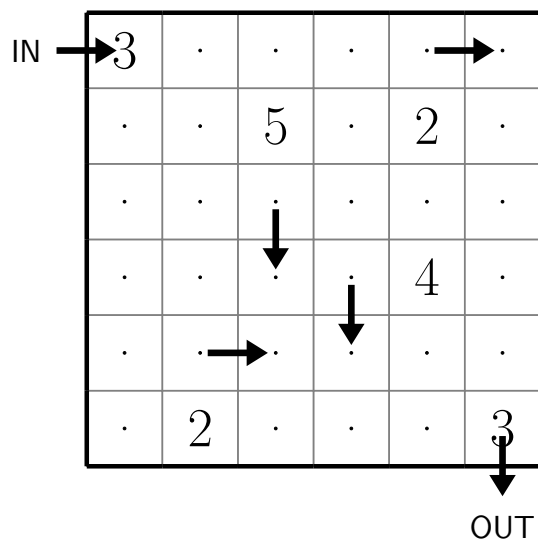
Black Ice 1 (23 points)



Black Ice 2 (25 points)

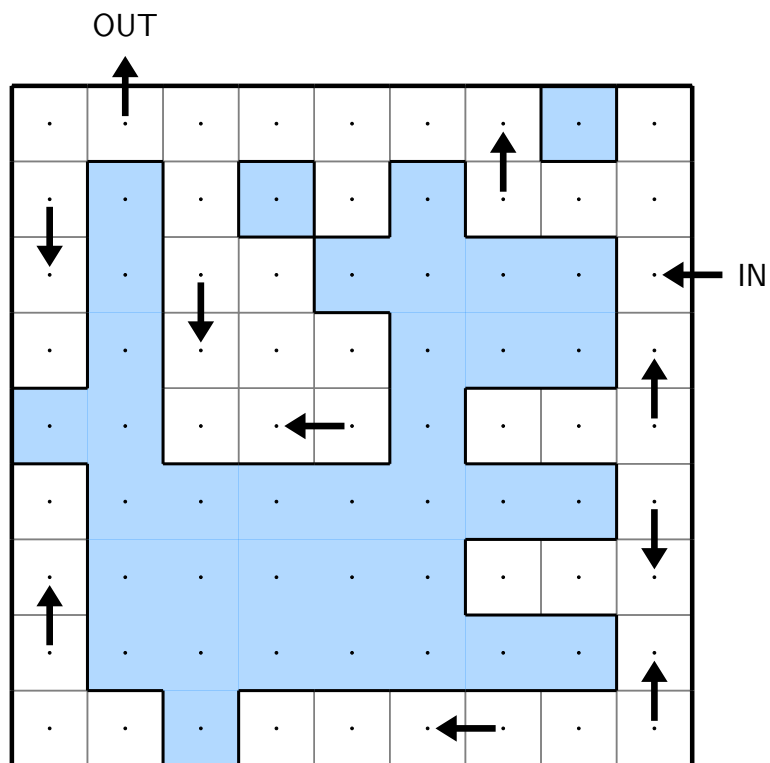


Black Ice 3 (27 points)

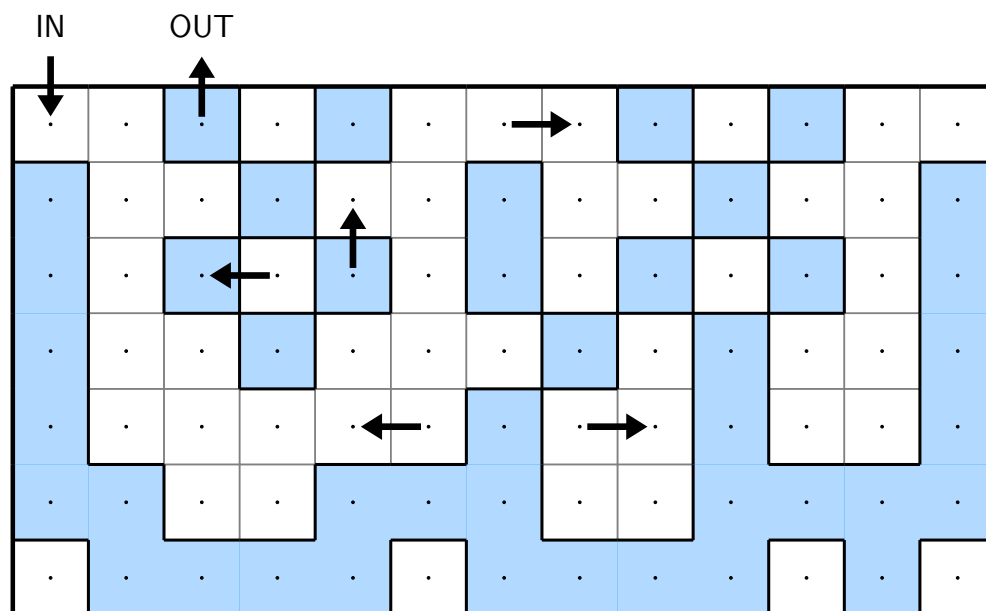


Challenges

Challenge 1 (Basic) (30 points)



Challenge 2 (World Tour) (30 points)



The diagram shows a 5x5 grid world environment. The grid contains several blue squares representing obstacles. A black box in the top-left corner is labeled 'OUT' and 'IN'. The grid is surrounded by a thick border with colored arrows indicating movement directions: blue (up), orange (down), green (left), and red (right).

The diagram shows a 7x7 grid world environment. The grid contains numbers (1-4) and arrows indicating transitions. An 'IN' arrow points to the top-left cell (1,1), and an 'OUT' arrow points away from the bottom-right cell (7,7).

IN →	•	• →	•	•	•	•	•
	4	•	↓	4	• →	•	↑
	•	•	•	•	•	3	•
	•	•	•	↓	•	•	•
	•	3	• →	•	•	↓	3
	•	• →	•	4	• →	•	↓
	•	•	4	•	•	4	•
	•	•	•	•	•	•	→ OUT