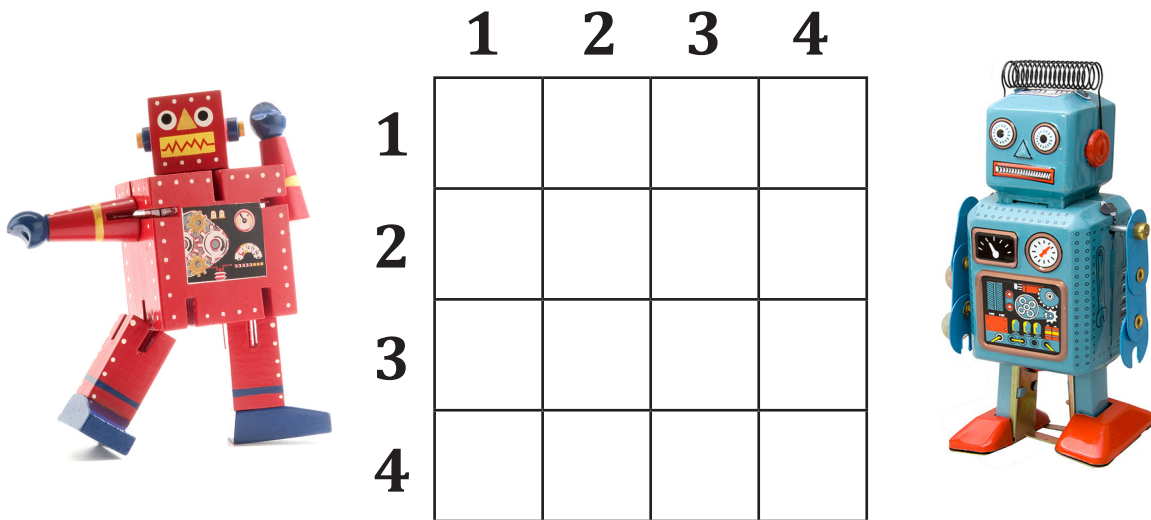# Robots

Robots can move around the **4 x 4 board** below. They can do so at the rate of one square per second. Start the **red robot** at (1,1) and give it instructions (square by square) to move in a square of side length 3 around the square (2,2).

	1	2	3	4
1				
2				
3				
4				

Now start the **blue robot** at (4,4) and write instructions for it to move in a square of side length 3 around the square (3,3).

If the red and blue robots both start at the same time from their respective corners, which squares can they both be made to occupy at the same time?