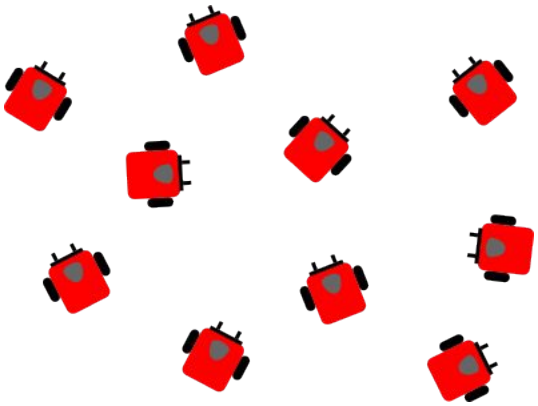
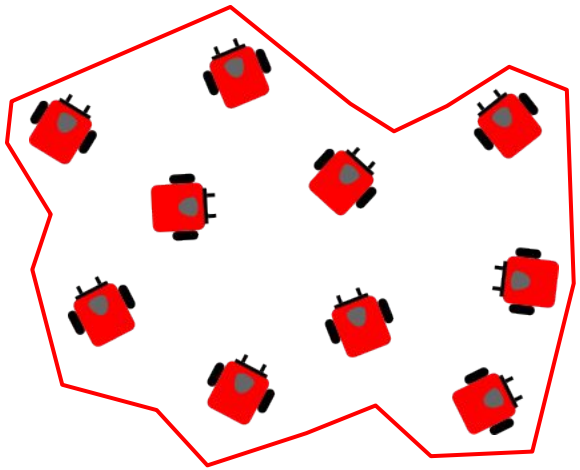
Swarm Robot Control

Unknown Number of Robots

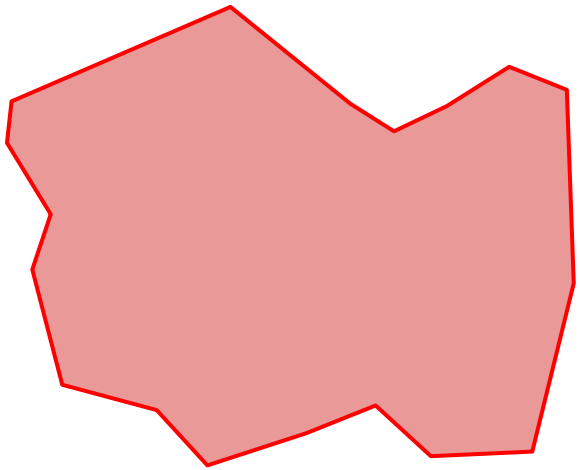
Robots are in an area



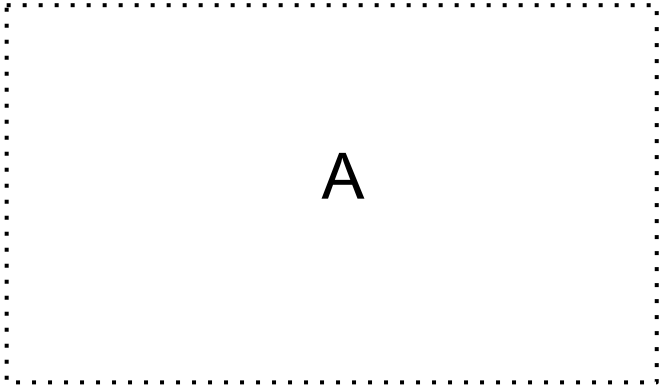
The cloud outline encloses the area the robots are in

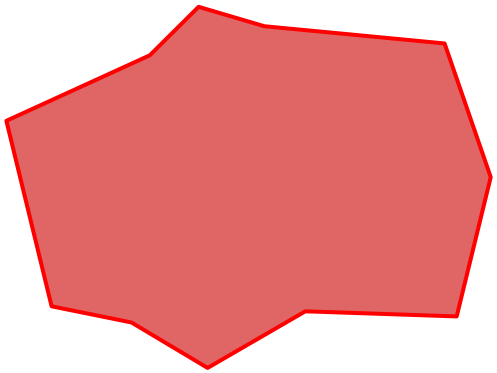


But the number of robots and their exact location is unknown

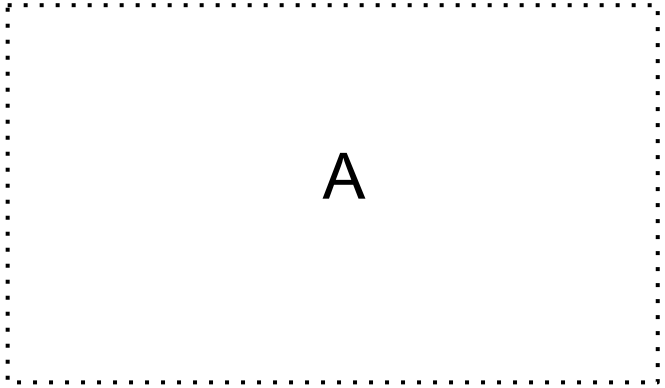


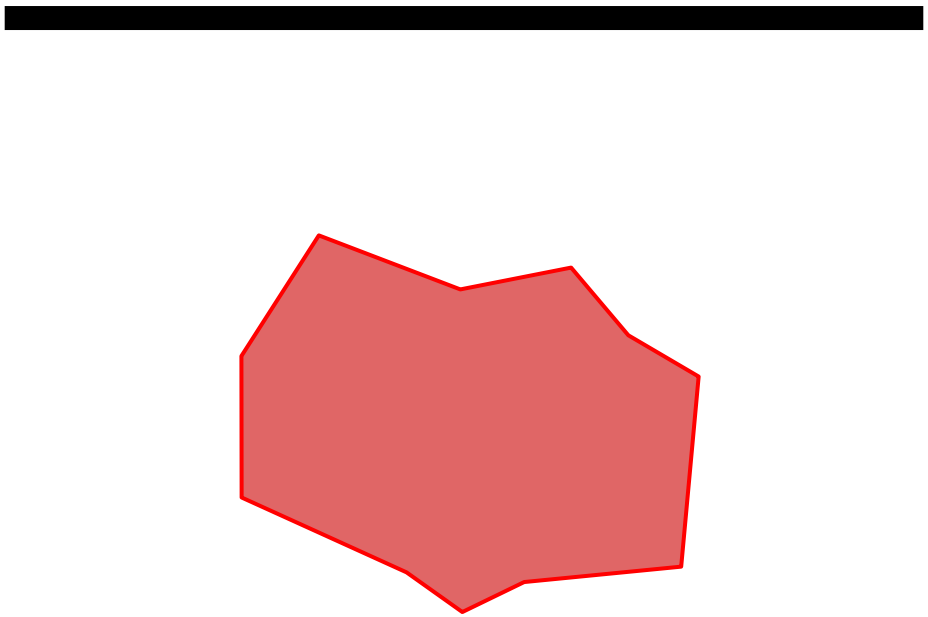
Move the robots to Area A


A

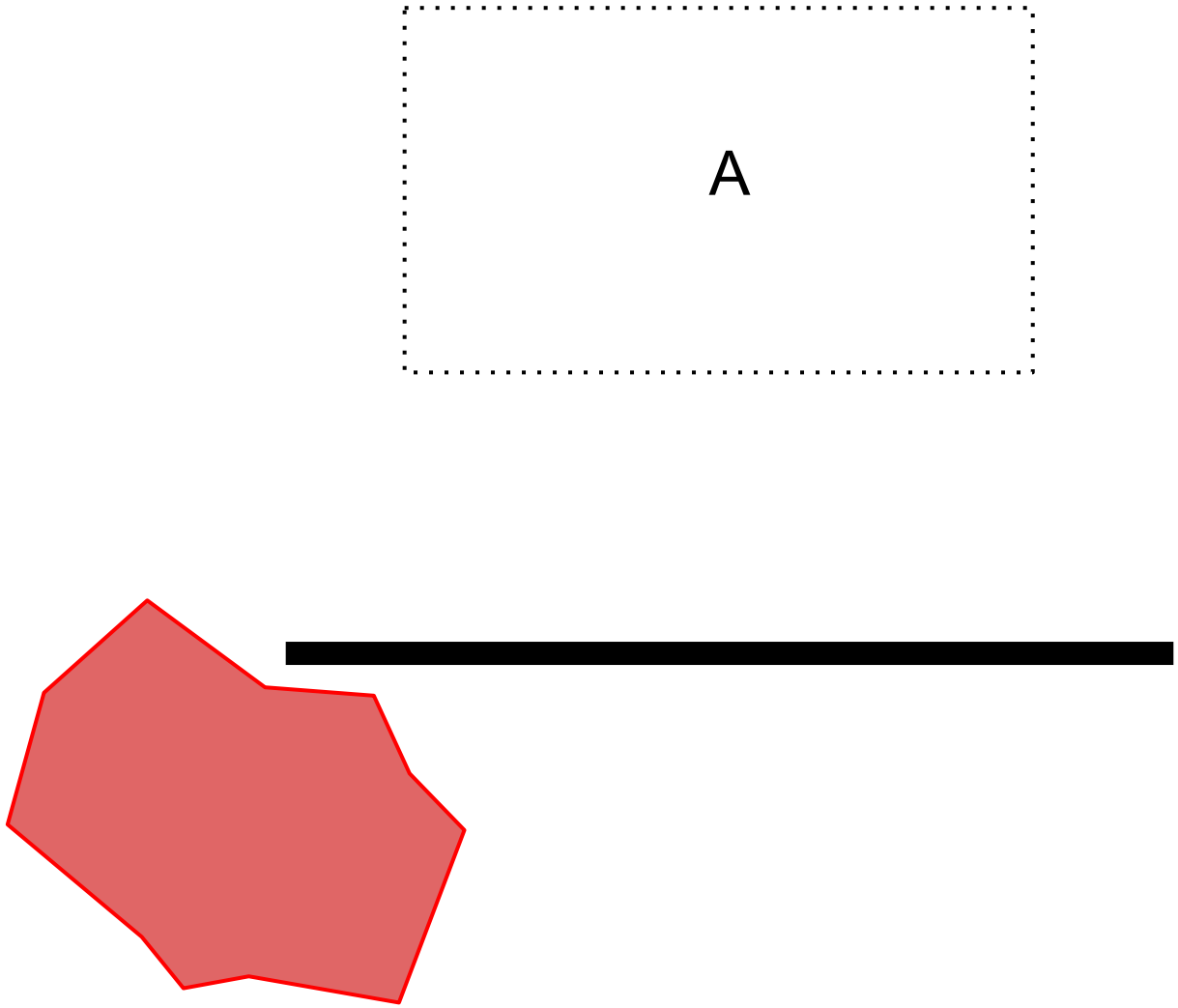


Move the robots to Area A with a wall in the way

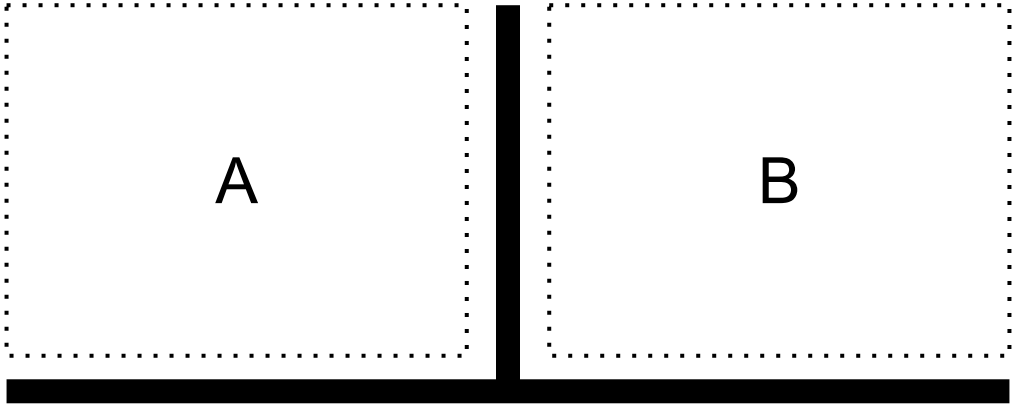

A

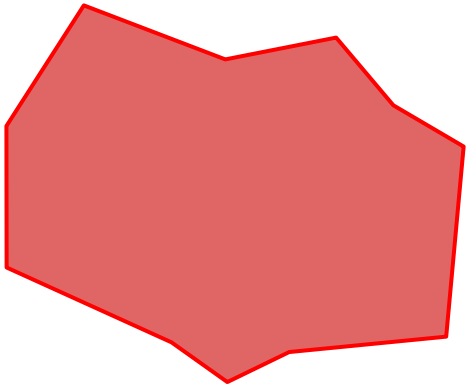


Stop the robots

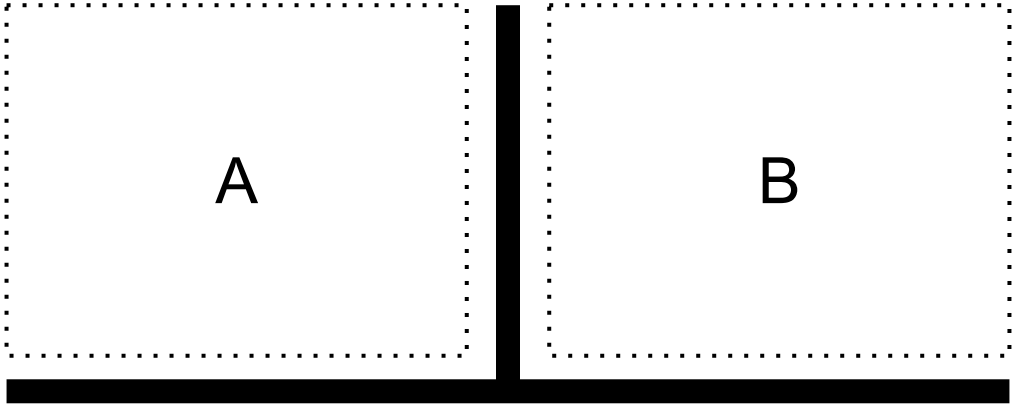

A

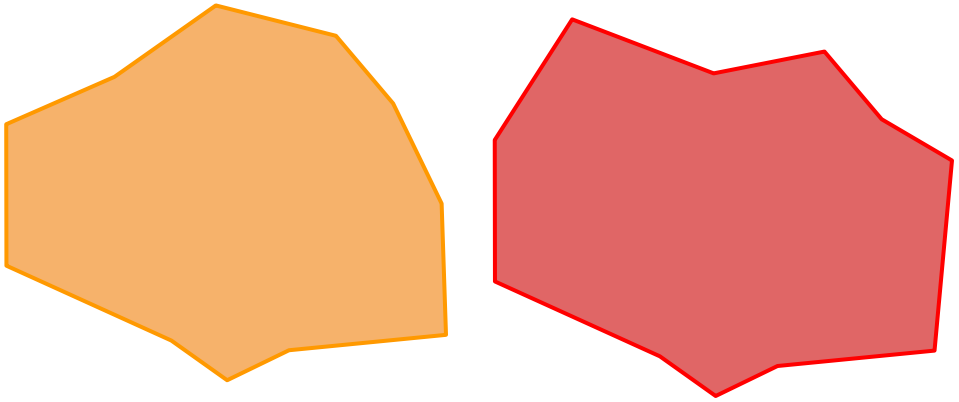
Divide the robots around an obstacle


A
B

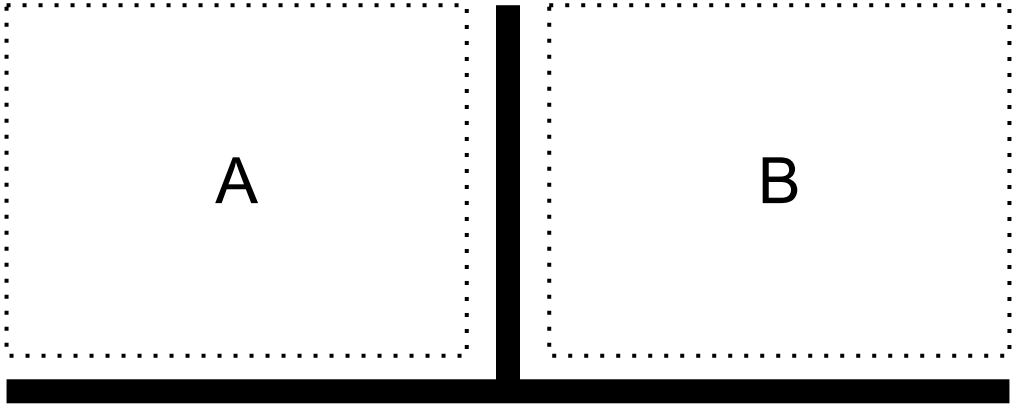


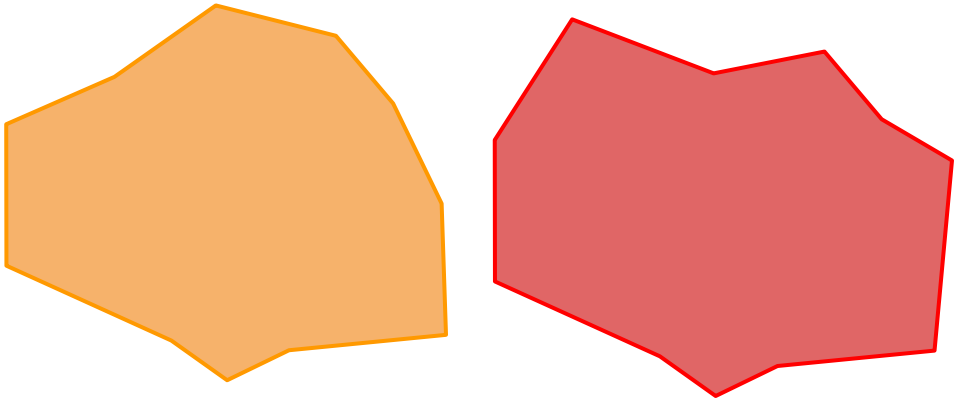
Move the orange robots to area B and the red robots to area A


A
B

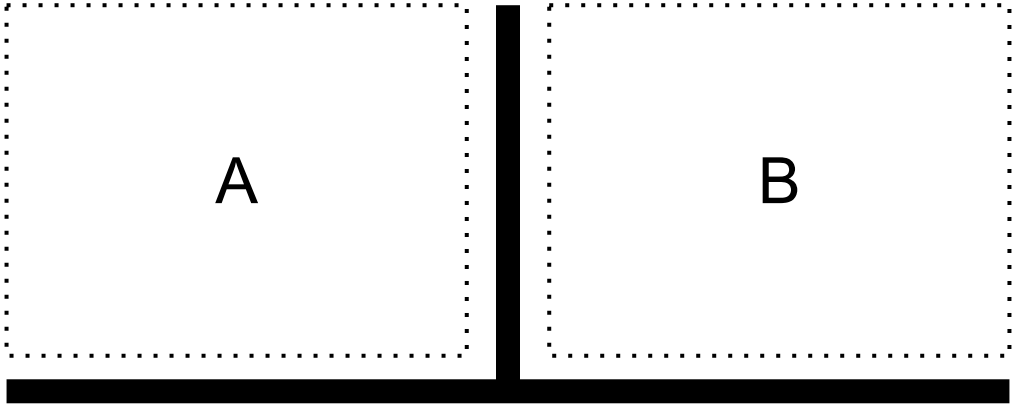


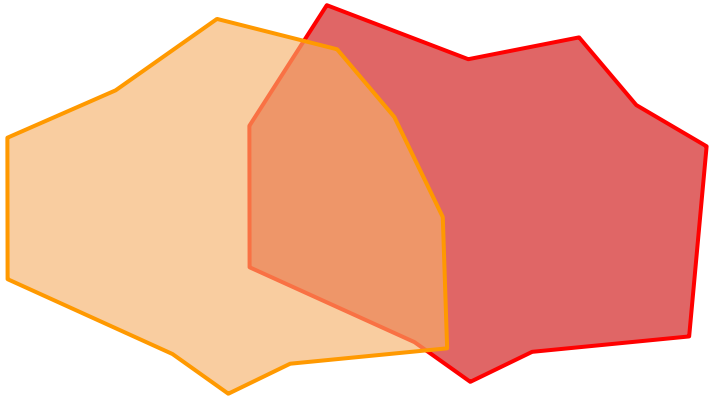
Move the orange robots to area A and the red robots to area B


A
B

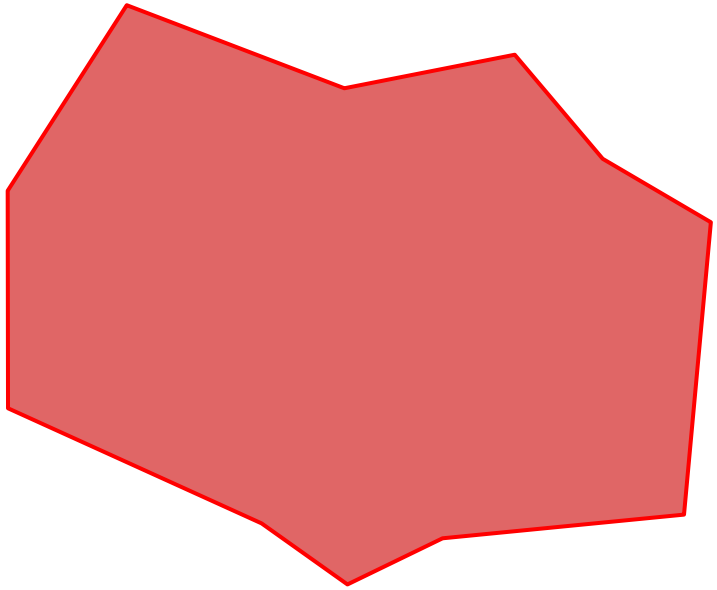


Move the orange robots to area A and the red robots to area B

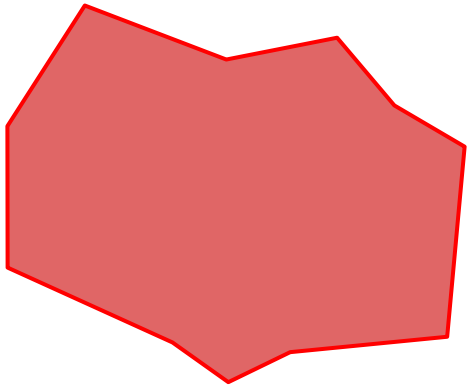

A
B

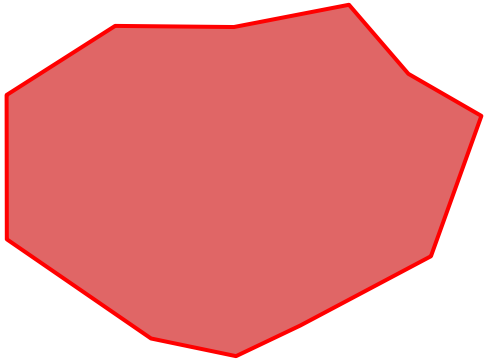


Divide into two groups

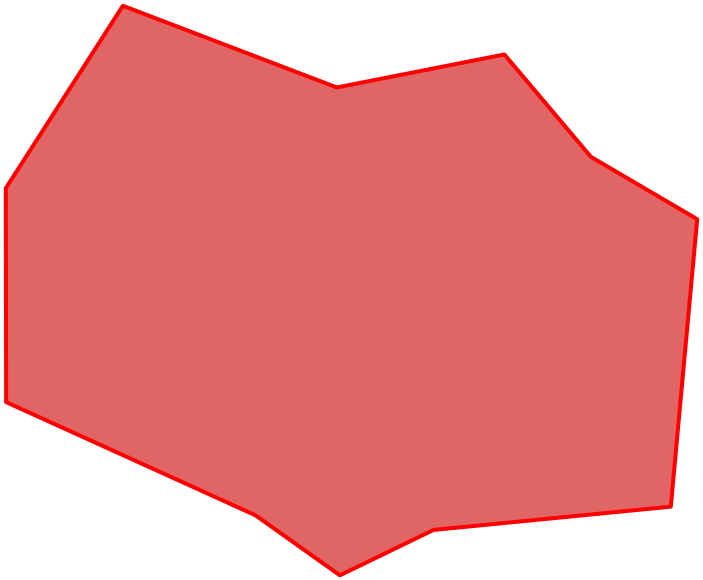


Merge two groups

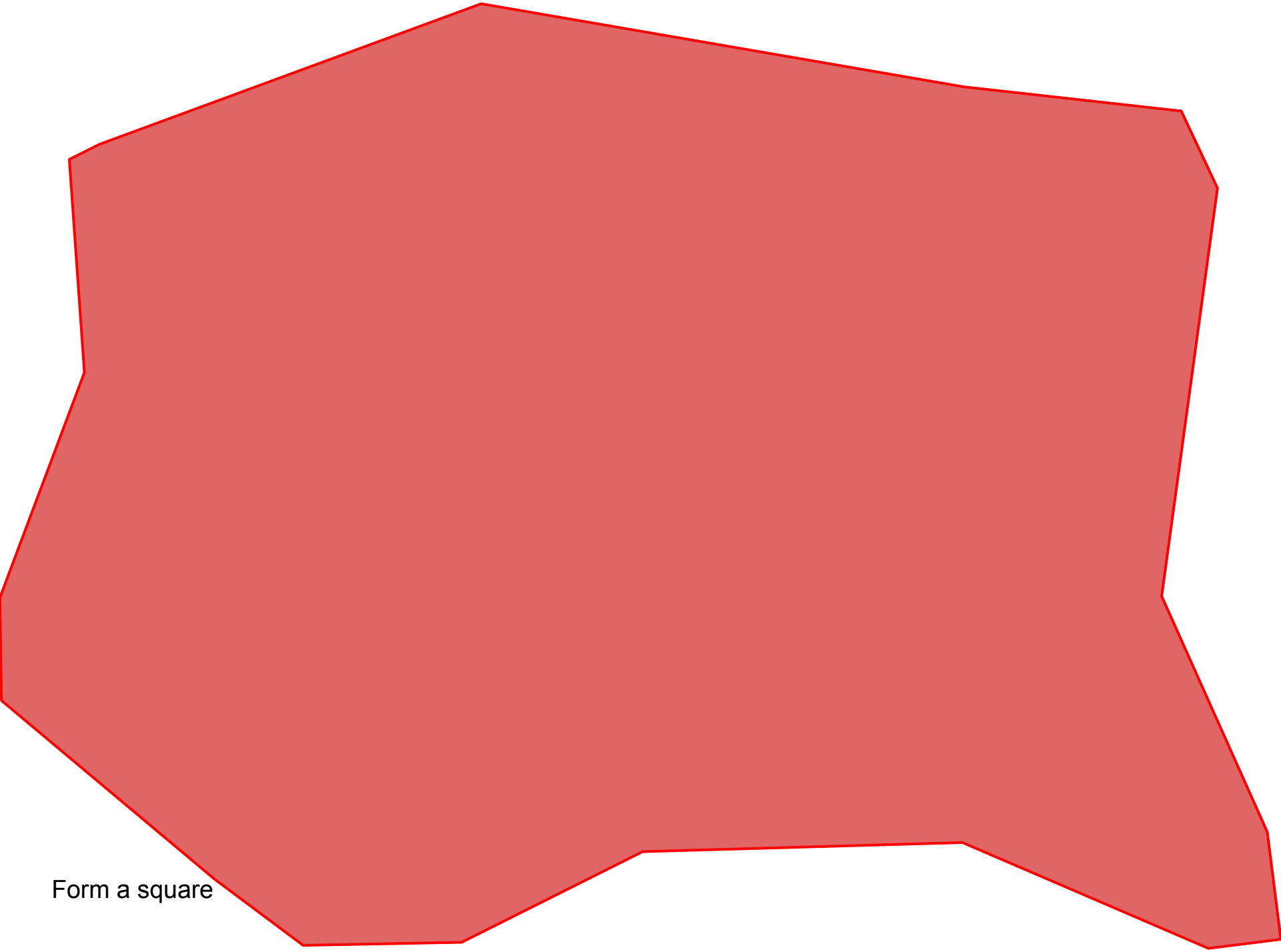




Tell the robots to form a line



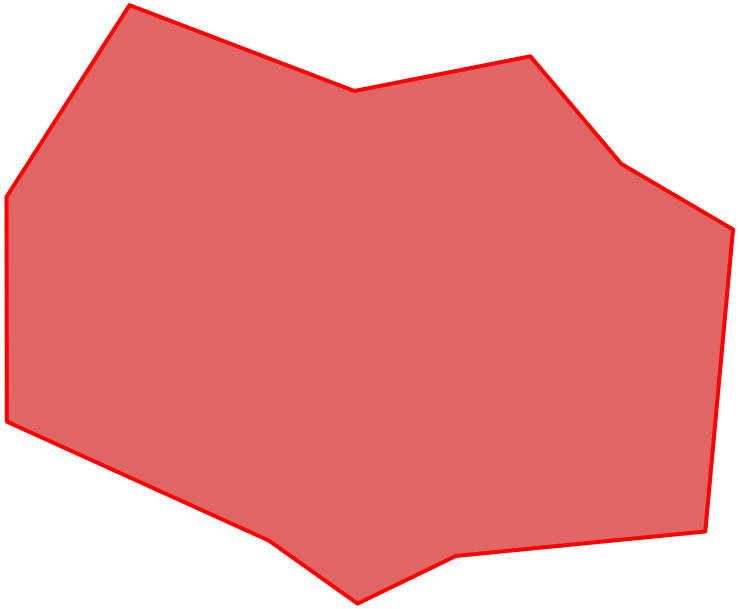
Tell the robots to form a square



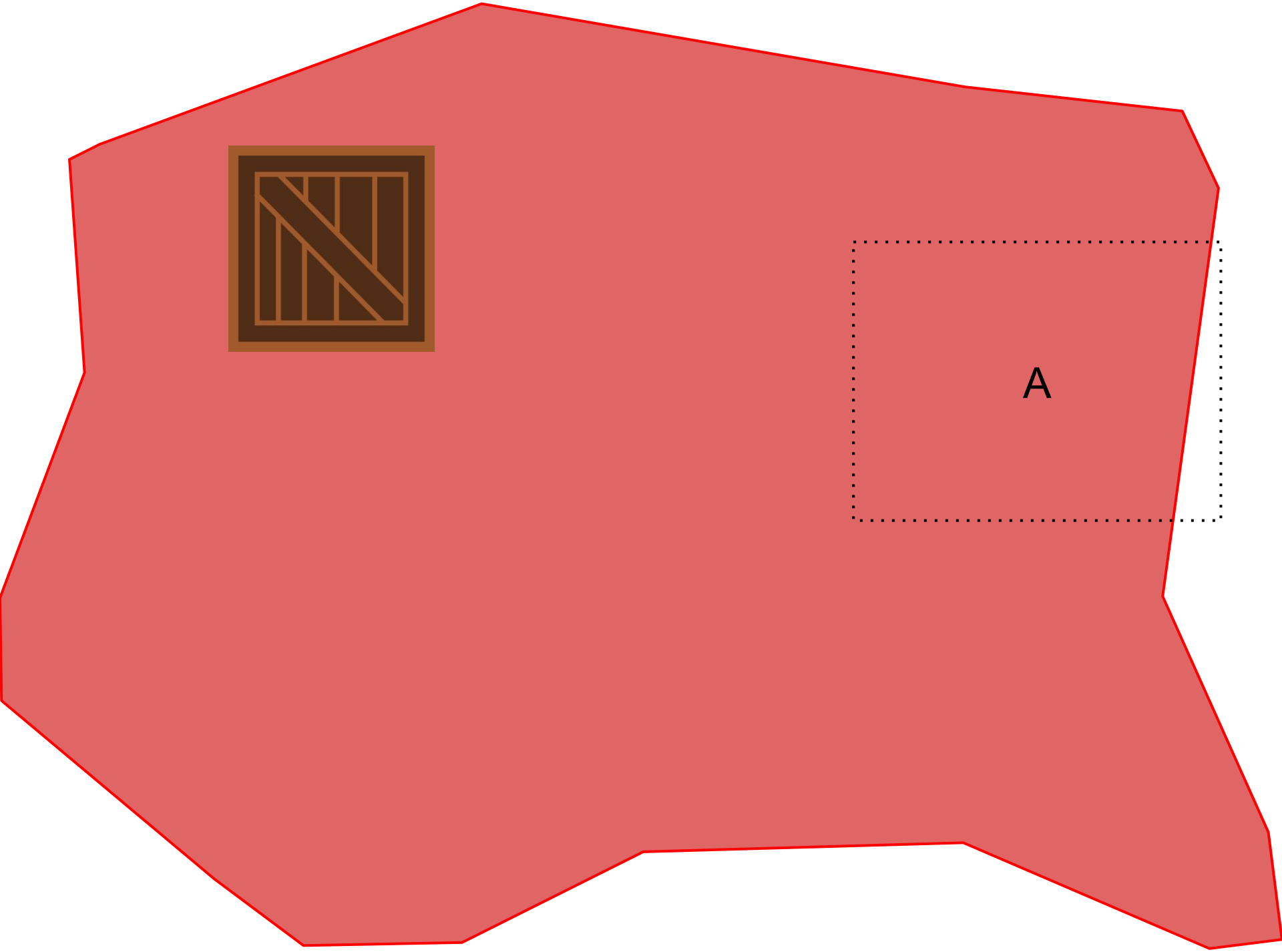
Form a square

Move the crate to area A

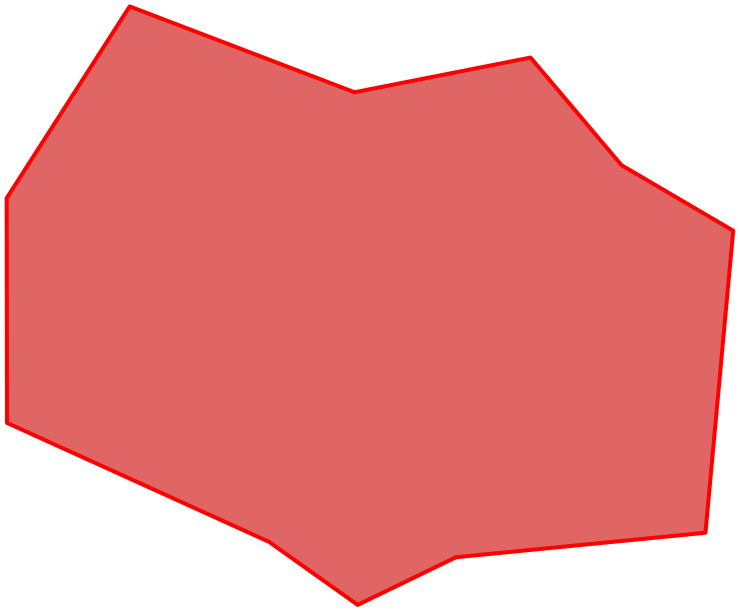
A



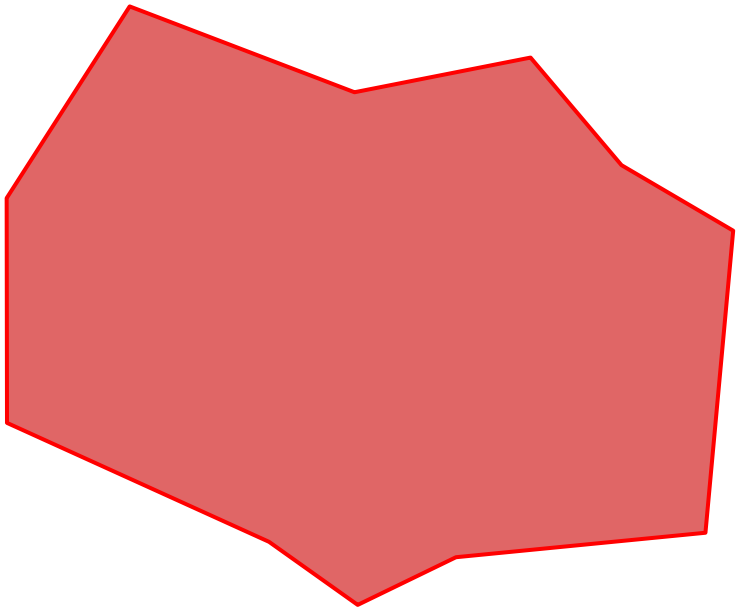
Move the crate to area A

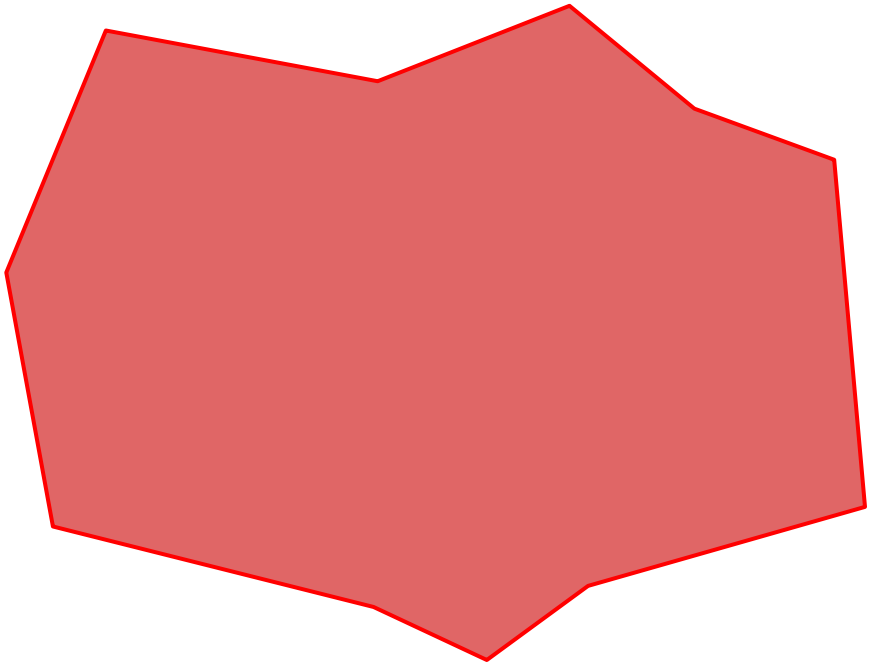

A

Patrol the screen border



Patrol area A



A

Disperse over the screen area