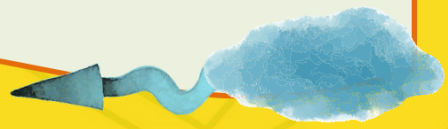
Information Transmission

Target

- Study Task 1: Information Transmission Rules

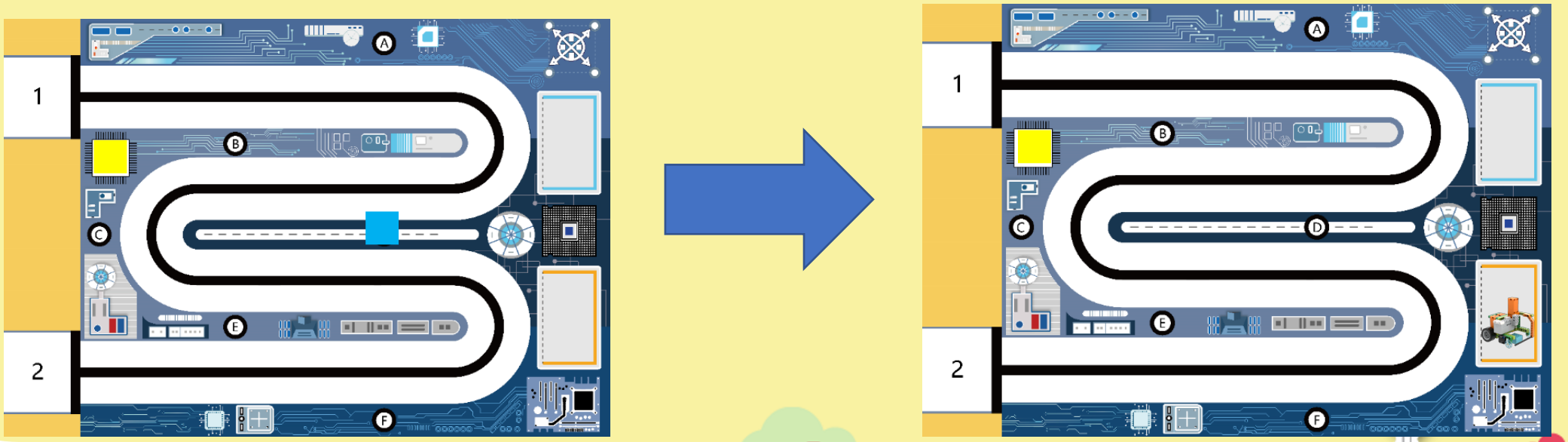
- Combine the previously learned concepts, including color detection, movement, and the use of the robotic arm to retrieve task items, to complete the content of Task 1.

01 Task



Task

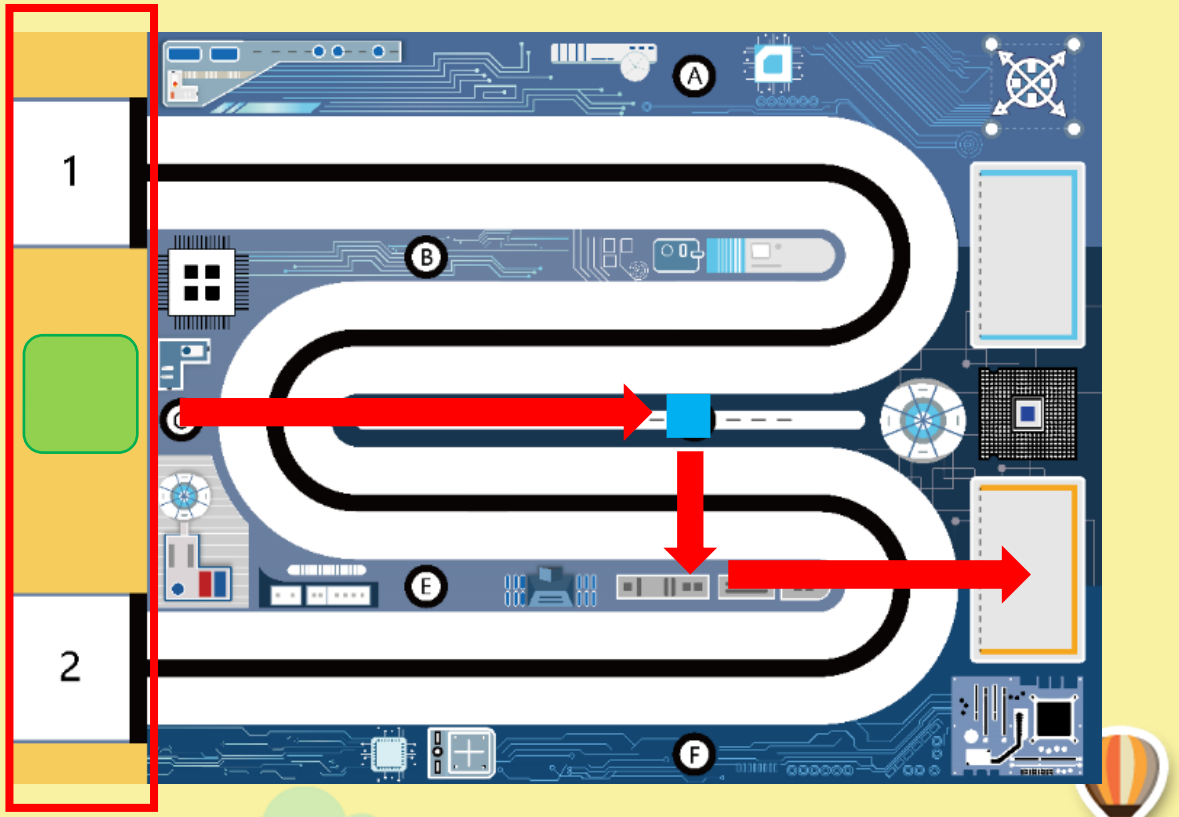
- The device starts from any position in the preparation area and needs to deliver a specified block to the designated location as quickly as possible.
- Before the competition begins, a position from A, B, C, E, or F will be randomly selected as the location to place the block. After each round of registration, the information will be extracted by color to indicate which of the yellow or green relay stations is the destination.
- For example, if position D is selected and the information color is a yellow block, then the destination is the yellow relay station.



Task Analysis

- The device starts from any position in the preparation area and needs to deliver a specified block to the designated location as quickly as possible.

- Using position D as an example, the robot can start from the green position shown in the diagram and follow the red route.



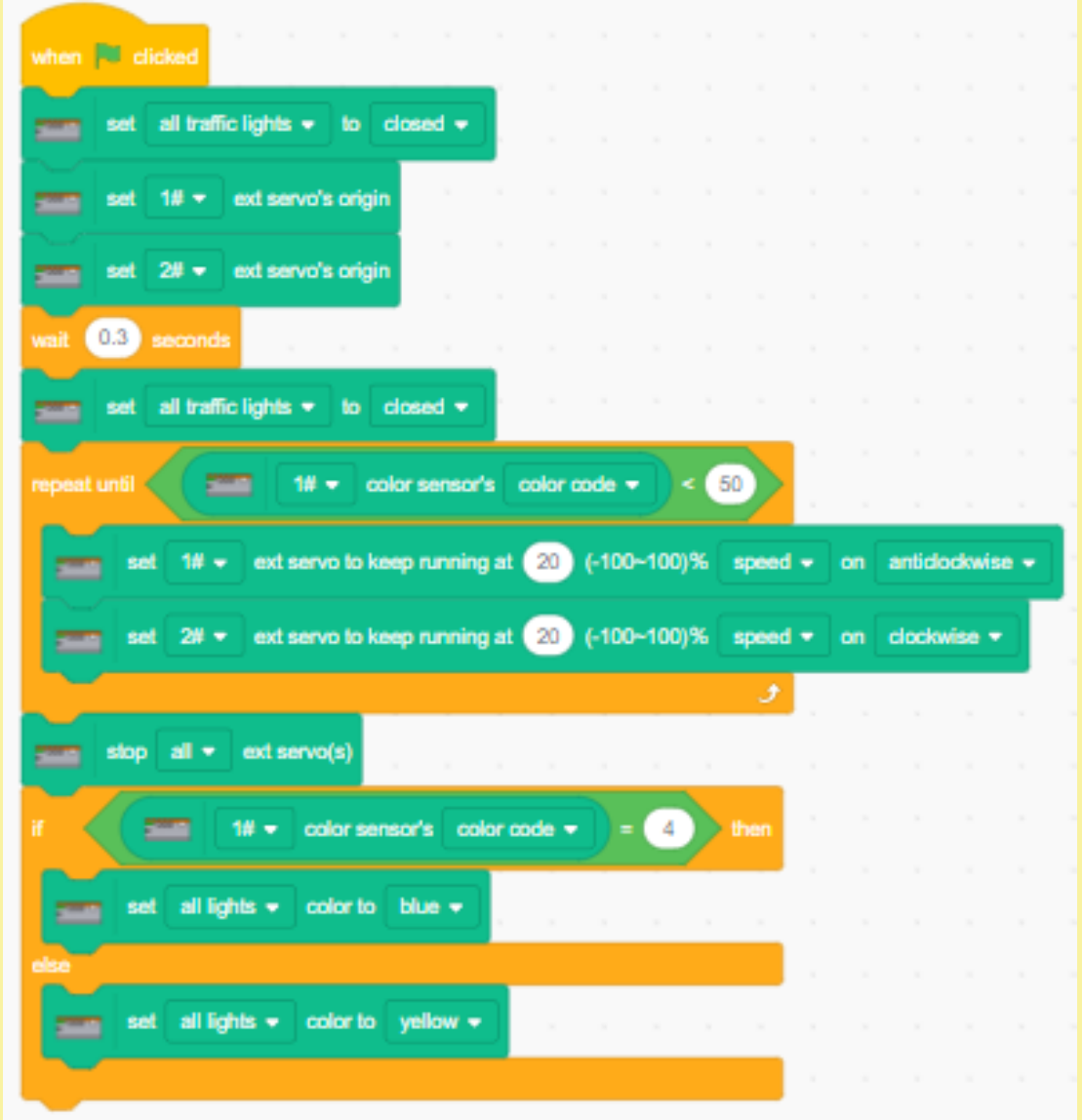
Task Analysis

- If the block representing the destination is moved to the left side of the robot, then move the color sensor to the left side as well.

Task

Referrable Program

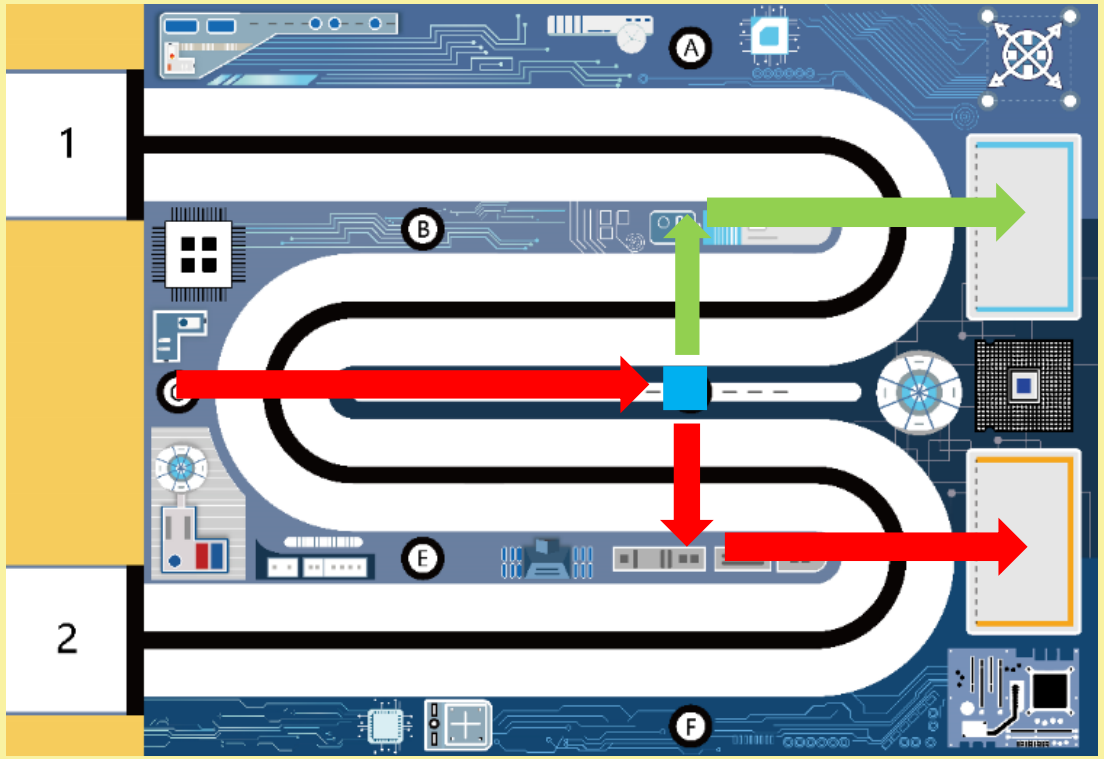
Do you remember the decision-making program from the last lesson? Let's implement it using a different approach.



Task Segmentation

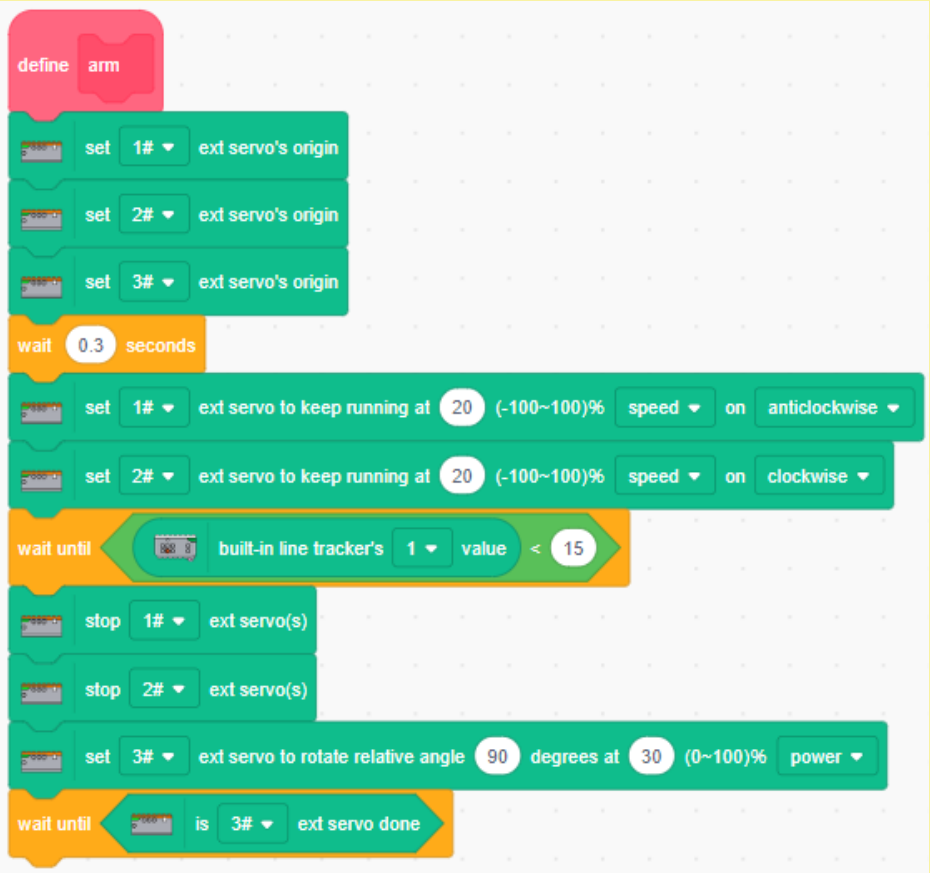
Task 2: Complete the Actions for Detecting Yellow and Blue Areas

- Don’ t rush. Take it step by step and debug carefully.

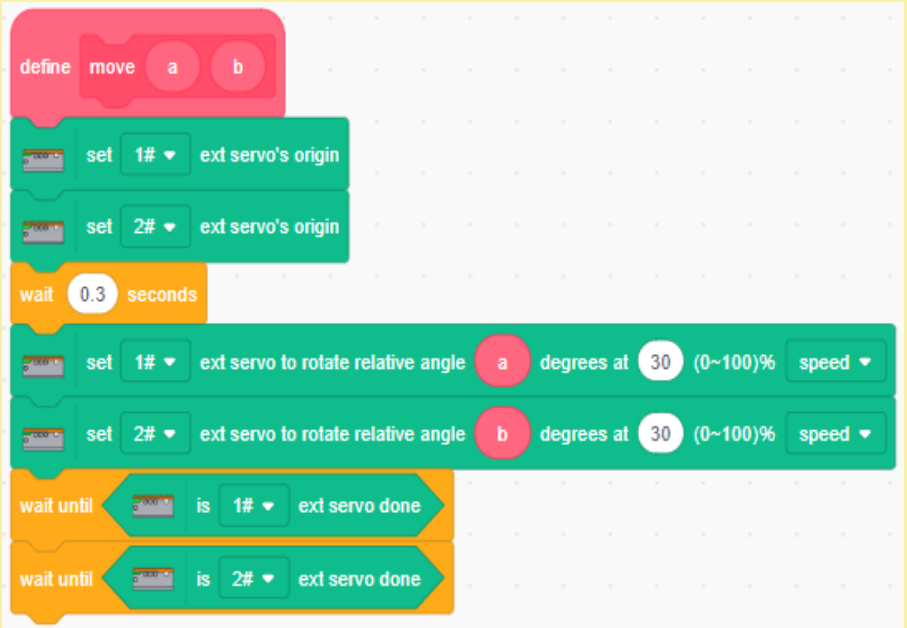


Task

Referrable Program

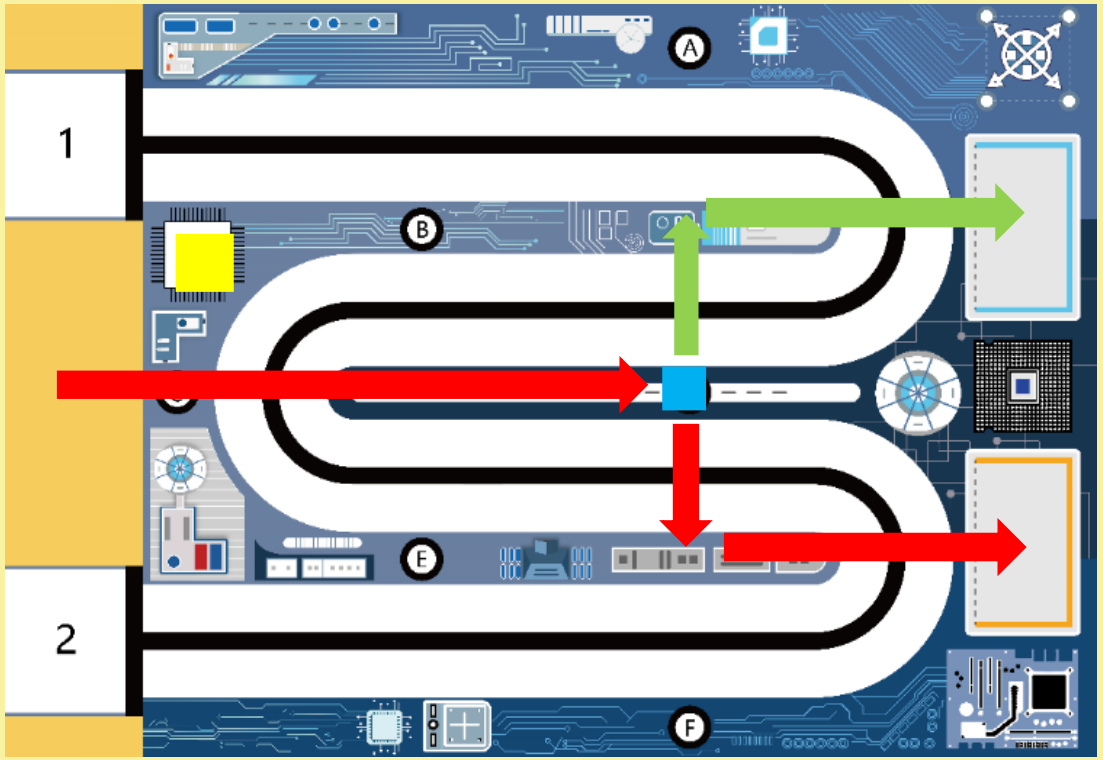


To handle movement, it’s advisable to use “My Blocks”.Here’s how to use the movement module with the yellow endpoint as an example:



Task Segmentation

Task 3： Next, let's integrate the tasks and complete the entire sequence.



Task

Referrable Program

After completing Task 1, simply add the blue and yellow actions following the decision-making step, then choose to run the sequence.