

ORA Editor and Workspace

Name: _____

Lesson 2

Date: _____

Vocabulary

Code- a set of instructions written in a programming language that a machine can understand

Pseudocode- a simple, straightforward description of what a program should do

Visual Block Coding- a programming language that lets users create programs by manipulating code blocks rather than writing the code out

Workspace- the large field in the editor where program blocks are assembled

Program - a compilation of code that runs on a particular machine

Engage

As you observe the ORA, write down the steps of the program that you think ORA is running

1. Move to Initial Position

2. Go to Quadrant A1 in a low position

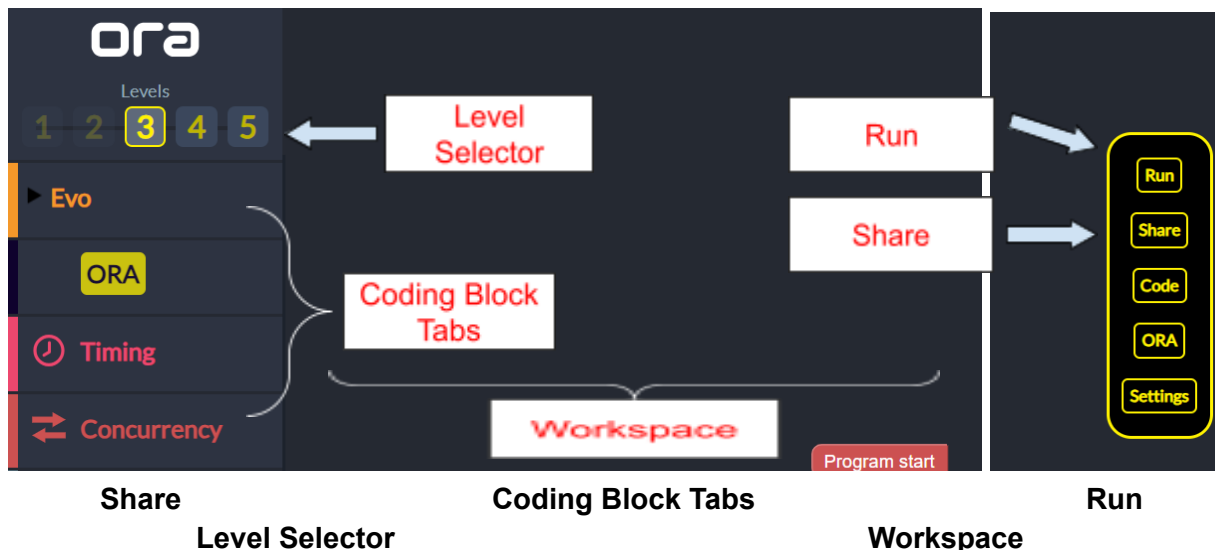
3. Wait 3 Seconds

4. Go to Quadrant D1 in a high position

5. Go to Quadrant A4 in a low position

Explore

Explore the Level 3 ORA Editor. Identify each of the main parts from the below word bank.



ORA Editor and Workspace

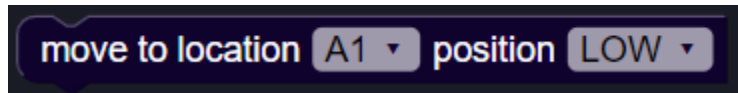
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Explore (Continued)

After identifying the main parts of the ORA Editor, find this code block and drag two of them into the workspace.



When you drag these blocks into the workspace, what happens to their color? Try attaching both of them to the Program Start block. What happens to their color then? What do you think this means?

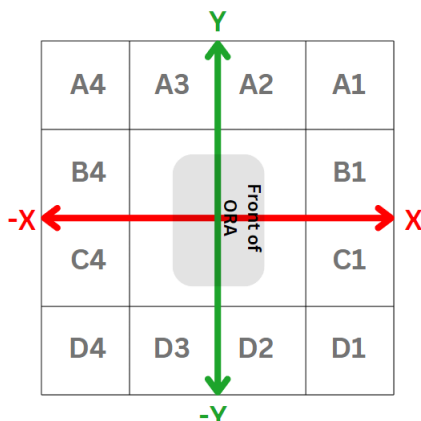
When the blocks are dragged into the workspace, they are gray. When they are connected to the Program Start Block, they are colored back in. When they are grayed out, they are NOT part of the code sequence!

Explain

ORA Pseudocode: Create your own five-step pseudocode using only ORA movement and Timing blocks. Refer to the Quadrant Map below as needed.

Step #	Step Action
Step 1	Answers will vary by student group
Step 2	
Step 3	
Step 4	
Step 5	

ORA Quadrant Map



Cut out or carefully poke a hole in the gray rectangle where ORA would be located.

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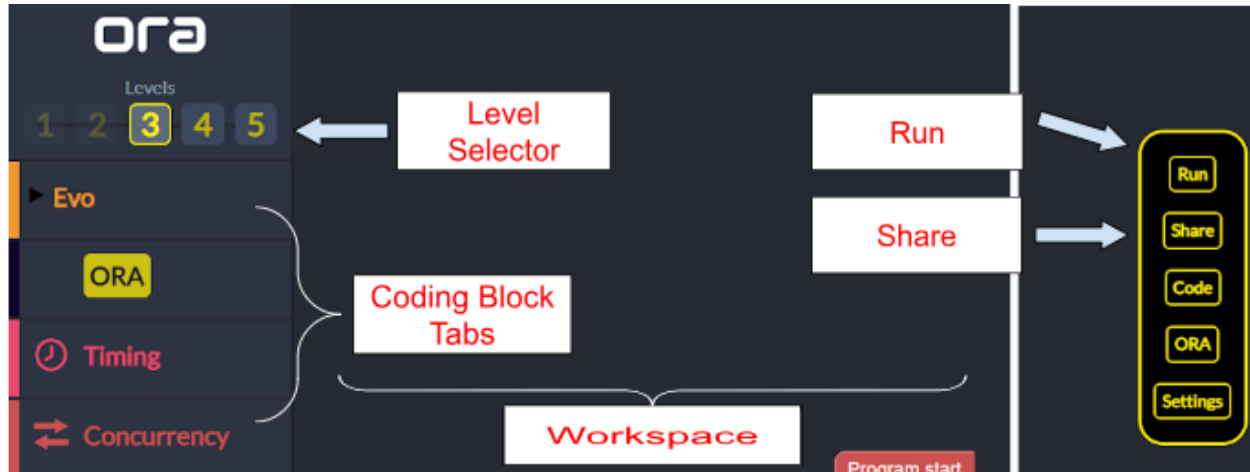
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Evaluate

Please answer the following prompts.

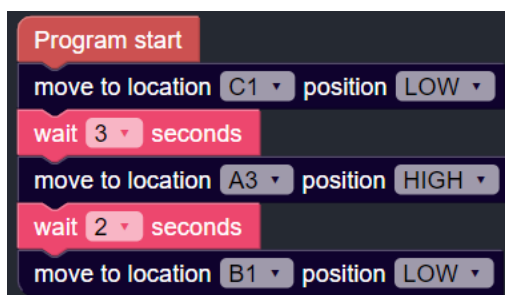
Remember to include your **name** and **date** on this paper!



1. Refer to the above ORA Editor for the below questions
 - a. Which part of the editor do you assemble your code blocks?
Workspace
 - b. Which part of the editor could you download and share code?
Share
 - c. Which part of the editor could you change the complexity of the code blocks?
Level Selector
2. Describe in your own words how using pseudocode can help a person be a better programmer?

Pseudocode allows a person to think through the coding problem, organize their thoughts, and look at the “big picture” like the outline of an essay.

3. Below is a screenshot of some ORA Editor code. Write the pseudocode, step by step, that explains ORA’s actions as a result of the code.



1. Move to Quadrant C1 in a low position
2. Wait three seconds
3. Move to Quadrant A3 in a high position
4. Wait two seconds
5. Move to Quadrant B1 in a low position