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| **Mission 11 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| This mission will use line sensors to stay on a line. What code for line sensors do you remember? (Review missions 7-9) |  |
| **Mission 11 Checks**  **Note:** *Instead of starting a new program and typing all the code for line sensing, you can use the program from Mission 9. Mission 11 will require a small change to Mission 9 and then many additions. If you use Mission 9, be sure to do a “save as” and give your new program a new filename.* | |
| Objective #1  What do you change in the code to detect a white line instead of a black line? |  |
| Objective #2  What variables are needed for counting the lines?  What is the augmented assignment for incrementing count? |  |
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| Objective #3  What is the condition for knowing when to stop the motors?  What is the code for stopping the motors? |  |
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| Objective #4  What does the math operator // do?  What does the expression do: |  |
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| Objective #5  What does the math operator % do?  What is the branching statement for turning on or off the speaker? |  |
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| Objective #6  What does the math operator \*\* do?  What code, using a binary value, turns on both proximity sensors?  What code, using a binary value, turns off both proximity sensors? |  |
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| **Post-Mission Reflection** | |
| On a scale of 1 (not fun) to 5 (the best!), rank this mission. Explain why. |  |
| On a scale of 1 (too easy) to 5 (very hard), rank this mission. Explain why. |  |
| Describe an activity or application that could use integer division and modulo: |  |