

THINK LIKE A DETECTIVE: DEBUGGING

Lesson 2





IMAGINE





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**HOW DO YOU FIX THE
PROBLEM?**



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IMPORTANT VOCABULARY

Bug: An error in your code.

Debugging: The process of identifying and fixing the error.



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DEBUG LIKE A PRO

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2. What are the key steps?
3. Document your process using Swift Playgrounds.
Be sure to record an explanation for each step.



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LET'S DISCUSS

- Share presentations using AirPlay.
- What could you do to try to prevent this from happening?



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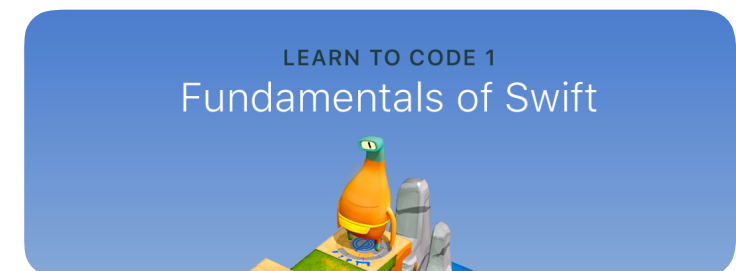
TIME FOR SWIFT PLAYGROUNDS

Chapter: Commands

Activities: Finding and Fixing Bugs to The Shortest Route

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REMINDER: Take videos and or photos of your playgrounds. You will need them for your portfolio.



Commands	
Introduction	
Issuing Commands	
Adding a New Command	
Using the Right Command	
Portal Practice	
Finding and Fixing Bugs	✓
Bug Squash Practice	✓
The Shortest Route	✓



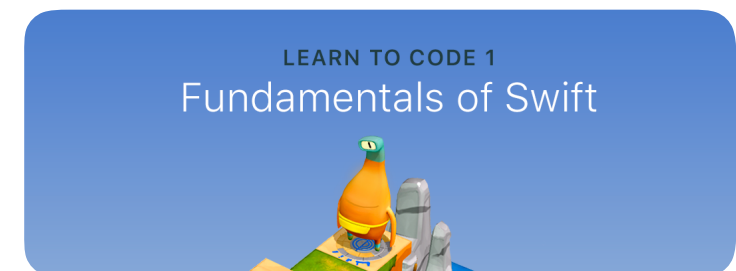
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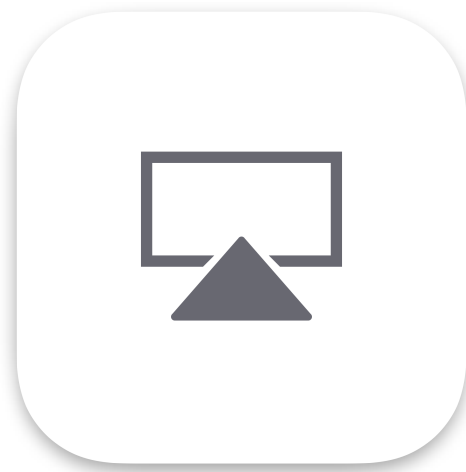
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Share what you did in Swift
Playgrounds with AirPlay





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LET'S REFLECT

1. Were you able to use the process used by developers to help you with the debugging activities in the app?
2. Did your process for debugging differ from how you would fix something? How?
3. Why is it important not to have any bugs, even if they are tiny? What are examples of tiny bugs that don't prevent something from working and bugs that could result in disaster?



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4. What tips would you give a coder to help prevent bugs?

Think ahead: Debugging might take time. Can you think of ways to code that could save you time?



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JOURNAL

1. Upload your “process.”
2. Upload screenshots from Swift Playgrounds.
3. Record answers to these questions:
 - What is a bug? What is debugging?
(Use your own words.)
 - What did you learn about thinking like a detective?

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