

Section Review

Learn to Code with Ruby

Debugging

- **Debugging** refers to walking through your program step by step to uncover a bug or discover details on how it works.
- The Ruby **debug** library helps assist with debugging by providing methods for pausing a program in the middle of execution.
- **debug** is part of the Ruby standard library, a collection of organized code for solving common problems.
- Ruby does not import its complete standard library to speed up the rate at which the program launches.
- As developers, we specify what libraries we'd like to import into a given file. Import the libraries that you need for a specific functionality.

Using debug in Your Program

- Use the **require** keyword to import the **debug** library.
- Use the **debugger** or **binding.break** methods to pause the program on a specific line.
- Run the Ruby program from your Terminal. Note that the VSCode Code Runner extension will not work with **debug**.

Navigating the Output

- Use **continue** or **c** to move on to the next breakpoint/debugger in your code.
- Use **step** or **s** to "step" to the next line of execution.
- Use **info** or **i** to display all the current program variables with their values.
- Place strategic breakpoints to pause at critical pieces of logic in your program and explore the state at that time.