# Iteration

In this lesson, students will learn how and when to use a while loop. Repetitive code can be avoided by using a while loop. While loops are used to repeat a set of statements until a condition is met. This lesson corresponds with AP Computer Science A topic 4.1.

## Objective

Students will be able to:

* Represent iterative processes using a while loop
* Execute a return or break statement inside an iteration statement to halt the loop and exit the method or constructor
* Develop an algorithm
* Identify if an integer is or is not evenly divisible by another integer
* Determine a minimum or maximum value
* Compute a sum, average, or mode