coursera

For Enterprise





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Course Info

Deadline: You must submit this week's assignments by March 18, 2018, 11:59 PM PST.

THIS WEEK'S FORUM

Week 2

Welcome to the course discussion forums! Ask questions, debate ideas, and find classmates who share your goals. Browse popular threads below or other forums in the sidebar.

Go to forum

Resume

Strings in Java

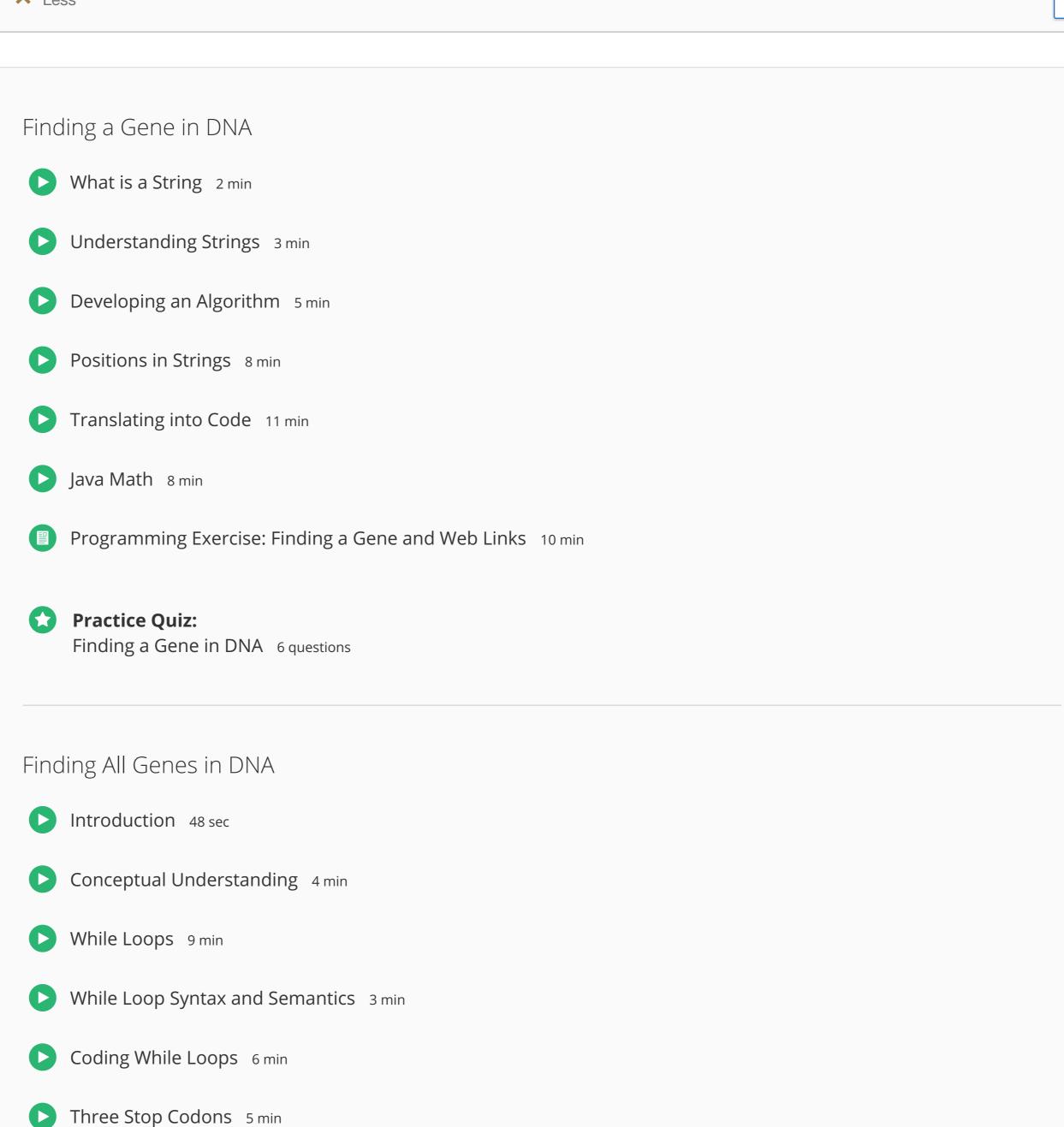






This module begins with a short presentation from Raluca Gordân, an assistant professor in Duke University's Center for Genomic and Computational Biology, about an important problem genomics scientists encounter regularly: how to identify genes in a strand of DNA. To tackle this problem, you will need to understand strings: series of characters such as letters, digits, punctuation, etc. After learning about Java methods that work with strings, you will be able to find genes within a DNA string as well as tackle other string related problems, such as finding all of the links in a web page. By the end of this module, you will be able to: (1) Use important methods for the Java String class; (2) Use conditionals, for loops, and while loops appropriately in a Java program; (3) Find patterns in the data represented by strings to help develop the algorithm for your program; (4) Understand the importance of designing programs that keep different data processing steps separate; (5) Use the StorageResource iterable for this course to store some data for further processing; and (6) Rely on Java documentation to better understand how to use different Java packages and classes.

Less



Coding Three Stop Codons - Part I 7 min

Coding Three Stop Codons - Part II 4 min

Logical And / Or 8 min

Coding And / Or 6 min

Translating to Code 8 min

Finding Multiple Genes 5 min

Programming Exercise: Finding Many Genes 10 min

Practice Quiz:

Finding All Genes in DNA 4 questions

Debugging Code

Practice Quiz: Debugging: Part 1 12 questions

Practice Quiz:

Debugging: Part 2 11 questions

Discussion Prompt:

Using the StorageResource Class

Debugging First Steps 5 min

Separation of Concerns 5 min

StorageResource Class 3 min

Programming Exercise: Storing All Genes 10 min

Coding StorageResource Class 4 min

Practice Quiz: Using StorageResource 6 questions

Review

Quiz:

Strings in Java 7 questions Due March 18, 11:59 PM PDT

End of Module Survey 10 min