Introduction

Searching Earthquake Data

▣	Module Learning Outcomes / Resources	10 min
▶	Introduction	7 min
▶	Relationships Between Classes	4 min
▶	Licensing and APIs	3 min
▣	Location class documentation and license resources	10 min
▶	Coding a Magnitude Filter	10 min
▶	Coding the Closest Quakes	12 min
▶	Summary	2 min
▣	Programming Exercise: Searching Earthquake Data	10 min
★	**Practice Quiz:** Searching Earthquake Data	6 questions

Filtering Data

Review

Earthquakes: Programming and Interfaces Module

In this module, we will introduce a data set containing details about earthquakes around the world. You will learn how to pull this data into a program, search through the data, and filter the data based on desired criteria. By the end of this module, you will be able to:

- write programs that include multiple classes and ArrayLists of class types,
- find the maximum value in an ArrayList,
- use a Filter interface to search through data,
- implement interfaces with method signatures, and
- combine several filters together.

More Course Resources

http://www.dukelearntoprogram.com/course4/index.php - This website of programming resources contains pages for each course in the Duke Java Programming specialization. The link above for this course is where you will go to:

- Download the custom version of the BlueJ environment;
- Find project resources, such as example code from the lecture videos;
- Download images and data files for the programming exercises; and
- See documentation for the custom classes developed for this course.

Lecture Slides

Searching Earthquake Data

Introduction.pdf
RelationshipsBetweenClasses.pdf
LicensingAndAPIs.pdf
CodingAMagnitudeFilter.pdf
CodingTheClosestQuakes.pdf
Summary.pdf

Filtering Data

FilteringDataIntroduction.pdf
InterfacesToAvoidDuplication.pdf
InterfacesInMoreDepth.pdf
MatchAll.pdf
FilteringDataSummary.pdf

Mark as completed

👍 👎 ⚑