

Catalog Search catalog

For Enterprise



**≮** Back to Week 3

**Reading Log Files** 

X Lessons

### **Finding Unique IP Addresses**

Introduction 1 min

Developing an Algorithm 3 min

Translating to Code 3 min

Equality 4 min

Summary 43 sec

Programming Exercise:

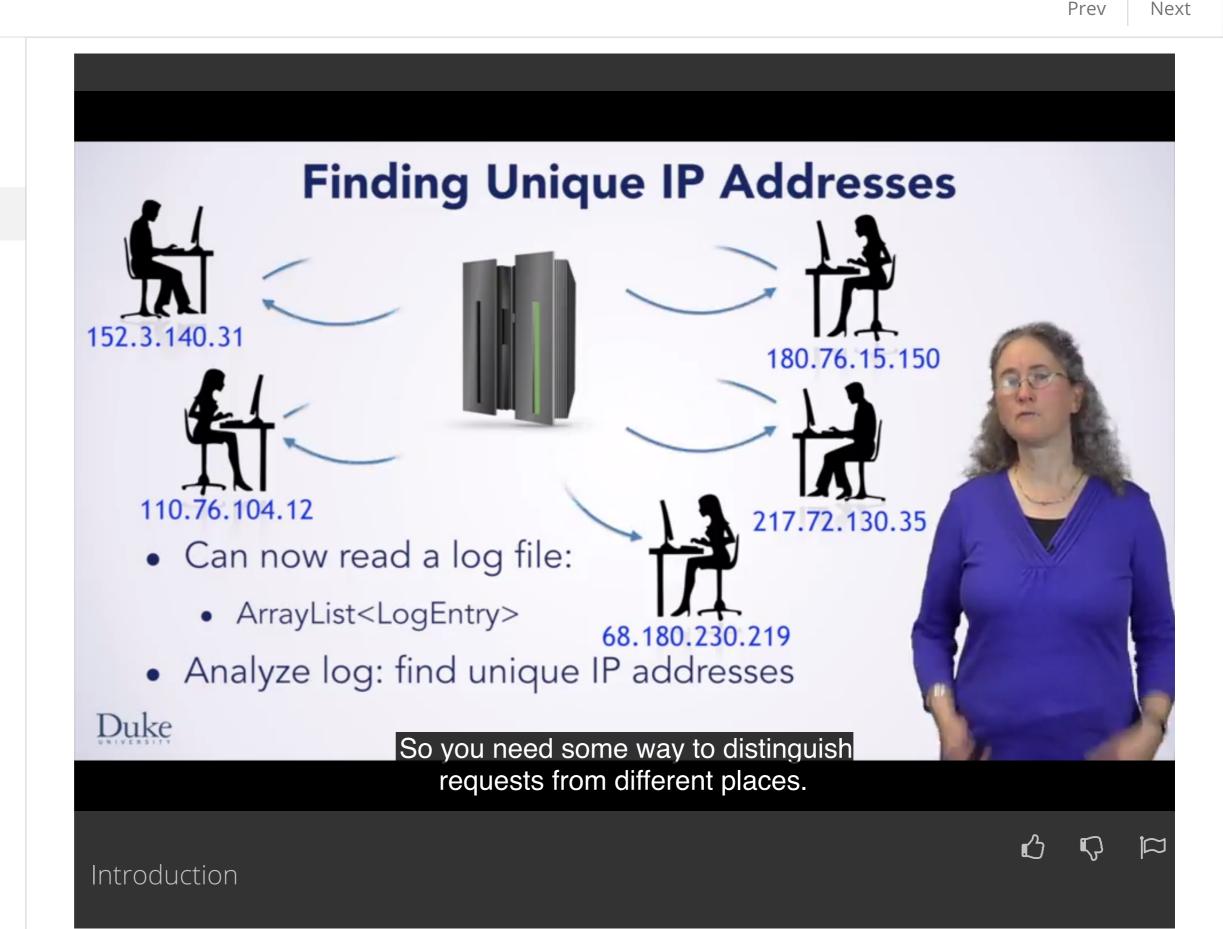
Finding Unique IP 10 min
Addresses

Practice Quiz:

Finding Unique IP 4 questions
Addresses

#### **Counting Website Visits**

Review



Q

Have a question? Discuss this lecture in the week forums.

>

# Interactive Transcript

Search Transcript

English **T** 

#### 0:03

Welcome back. You have already written code to read a web server log file, parsing each line into a log entry object, and creating an array list of them. Now it is time for you to write some code to analyze the data you have read. The first problem you're going to solve is finding out how many different people visited a website. You don't want to just look at how many elements there are in your array list, since some people may have visited your website multiple times. So you need some way to distinguish requests from different places.

#### 0:36

You can use the IP address as recorded in the log file to tell where the request came from. Using the IP address is not perfect, since you cannot distinguish between different people using the same computer. But how many different IP addresses you see is a very good estimator for how many different people visited the site.

#### 0:57

As you might recall from programming and the web for beginners, an IP address is the address of a device on the internet, whether that device is a traditional computer, a mobile phone, or something else.

#### 1:12

So what you are going to need to do to solve this problem is take the array list that you have read the log entries into and find out how many distinct IP addresses are in it. Have fun.

## Downloads

Lecture Video mp4

Subtitles (English) WebVTT

Transcript (English) txt

Would you like to help us translate the transcript and subtitles into additional languages?