

Programming Exercise:

Counting Website Visits

Practice Quiz:

Visits

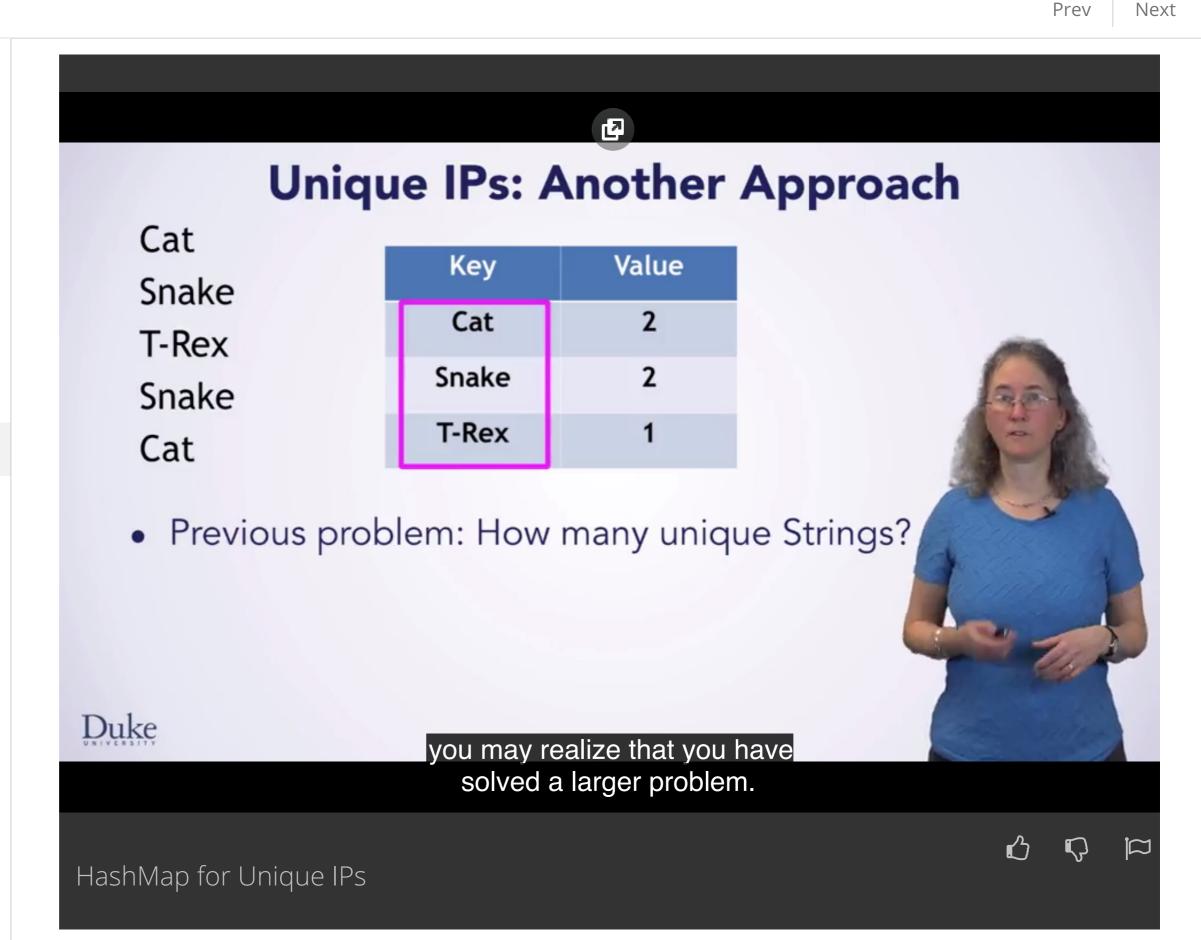
Review

Counting Website

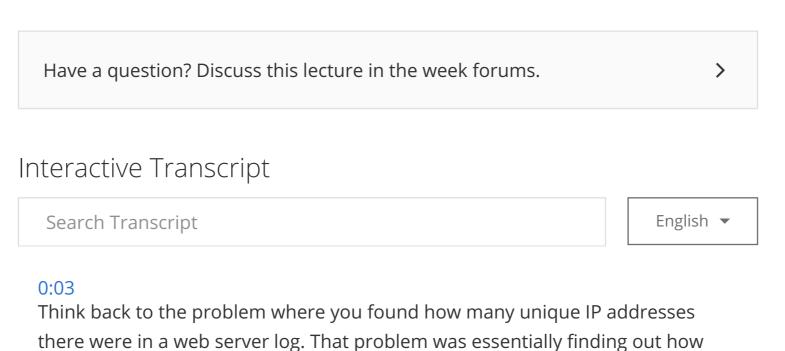
10 min

4 questions

Search catalog



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If you look at what you just did, finding how many times each string occurred, you may realize that you have solved a larger problem. The solution to the problem of counting unique Strings is already here. You have each unique String in this HashMap as a key, and would just need a way to turn it into the

0:41

many different strings there were.

This situation is common in programming. You may write code to solve a more complex problem and then be able to solve a simpler problem easily by using the more complex algorithm to do the hard work. Recognizing such situations can be quite helpful to becoming a highly productive programmer.

work. You would just need to be able to extract the answer from the HashMap.

answer you want. Your counting out rhythm has already done the hard

1:01

In this case, using the HashMap from the second problem to solve the first problem, is easy. HashMaps have a .size() method, which tells how many key value pairs the HashMap has.

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As each key appears once in the HashMap, the result from .size() tells you exactly how many unique keys there were in the input.

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If you had written countVisitsPerIP() first, you could have written countUniqueIPs() with just these two lines of code. The first line uses countVisitsPerIP() to solve a larger problem. And the second line uses the .size() method in HashMap to turn the answer from that problem in to the answer to this problem. The size of the HashMap is exactly the number of unique keys, which is the answer to this problem. Whenever you are programming, try to think of way to use code that you have already written and tested. Thank You.

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