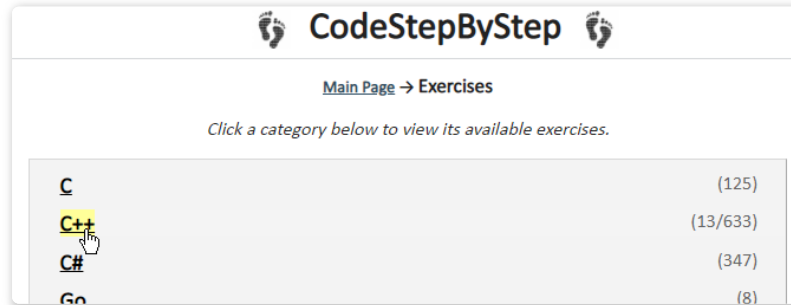


Try It Out

On the Canvas course home page, you'll find a link to **Code Step-by-Step**, a Web site providing practice problems in several different programming languages, including C++. Go ahead and create your own account, and then let's walk through a problem.



Click the C++ link as shown in the screenshot above, and then find the **recursion** section. Here are the instructions for the first problem, **collapseSequences**.

Write a **recursive function** named **collapseSequences** that accepts a **string s** and **char c** as parameters and returns a new **string** that is the same as **s** but with any sequences of **consecutive occurrences** of **c** compressed into a single occurrence of **c**. For example, if you collapse sequences of character **'a'** in the **string "aabaaccaaaaaada"**, you get **"abaccada"**.

Your function is **case-sensitive**; if the character **c** is, for example, a lowercase **'f'**, your function should not collapse sequences of uppercase **'F'** characters. In other words, you do not need to write code to handle case issues in this problem.

The following table shows two examples and their expected return values:

Call	Returns
<code>collapseSequences("aabaaccaaaaaada", 'a')</code>	<code>"abaccada"</code>
<code>collapseSequences("missississippi", 's')</code>	<code>"misisippi"</code>



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