Quiz #3

Name:

1. Function `CountChars` accepts two parameters: an `apstring str` and a `char ch`. The function returns the number of occurrences of `ch` in `str`. For instance:

   ```
   CountChars( "test", 't' )   returns 2
   CountChars( "this", 'a' )   returns 0
   ```

   Implement `CountChars` below.

2. Function `CountChars2` takes two parameters: the `source` string and the `target` string, and returns the total number of times that any character in the `target` string appears in the `source` string. It is assumed that the `target` string is duplicate free. Here are some examples:

   ```
   CountChars2( "test", "t" )   returns 2
   CountChars2( "thesis", "sh" ) returns 3 (2 s's and 1 h)
   ```

   Implement the function `CountChars2` below. In implementing `CountChars2` you may call `CountChars`, defined in Question 1, and you may assume that `CountChars` works as specified, regardless of what you wrote in your answer to Question 1.