**MCS 253P Quiz 1**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_UCI NET ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1) (100 pts)** string1 is **divisible by** string2 if string1 can be generated by concatenating only string2 one or more times, i.e., string1 = string2 + string2 + … + string2

Write a C++ or Java function that takes two string parameters, calculates the longest string that the two given strings are divisible by, and then returns it. The input (parameter) strings consist of only lowercase letters. The output (return string) should be all in lowercase. If there is no such string, it should return an empty string. You may write multiple helper functions. Please write your code in two columns to give yourself maximum vertical space. **Please do not write #includes or imports.** We will assume we can add them later.

Example, if the input strings are “abababab” and “abab”, then the output will be “abab”.

you can access this file through this [link](https://docs.google.com/document/d/1E8or_zdzUgGSTVyqbzkR2Eh3fSJWx_eJ3LEN5SBtXqo/edit?usp=sharing): https://docs.google.com/document/d/1E8or\_zdzUgGSTVyqbzkR2Eh3fSJWx\_eJ3LEN5SBtXqo/edit?usp=sharing

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| Edge cases: Sample S1 = “” S2 = “” Return = “” |

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