SHOW ALL YOUR WORK. REMEMBER THAT PROGRAM SEGMENTS ARE TO BE WRITTEN IN JAVA. Assume that the classes listed in the Java Quick Reference have been imported where appropriate.

Unless otherwise noted in the question, assume that parameters in method calls are not null and that methods are called only when their preconditions are satisfied.

In writing solutions for each question, you may use any of the accessible methods that are listed in classes defined in that question. Writing significant amounts of code that can be replaced by a call to one of these methods will not receive full credit.

Assume that the string oldSeq has been properly declared and initialized and contains the string segment. Write a code segment that will remove the first occurrence of segment from oldSeq and store it in the string newSeq. Consider the following examples.

If oldSeq is "1100000111" and segment is "11", then "00000111" should be stored in newSeq.
If oldSeq is "00000111" and segment is "11", then "00000" should be stored in newSeq.
If oldSeq is "1100000111" and segment is "00", then "11000111" should be stored in newSeq.

Write the code segment below. Your code segment should meet all specifications and conform to the examples.