Laboratory Activity #2

A. Word Swap

Write a method wordSwap that switches the order of values in an ArrayList of Strings in a pairwise fashion. Your method should switch the order of the first two values, then switch the order of the next two, switch the order of the next two, and so on. For example, if the list initially stores these values: {"four","score", "and", "seven", "years", "ago"} your method should swap the first pair, "four","score", the second pair, "and", "seven", and the third pair, "years", "ago", to yield this list: {"score", "four", "seven", "and", "ago", "years"}

If there are an odd number of values in the list, the final element is not moved. For example, if the original list had been: {"to", "be", "or", "not", "to", "be", "hamlet"} It would again swap words, but the final word, "hamlet" would not be moved, yielding this list: {"be", "to", "not", "or","be", "to", "hamlet"}

B. Replace strings with Length 4

Write a method replace4 that takes an ArrayList of Strings as a parameter and that places a string of four asterisks "****" in front of every string of length 4. For example, suppose that a variable called list contains the following values: {"this", "is", "lots", "of", "fun", "for", "every", "Java", "programmer"} And you make the following call: replace4(list); then list should store the following values after the call: {"****", "this", "is", "****", "lots", "of", "fun", "for", "every", "****", "Java", "programmer"} Notice that you leave the original strings in the list, "this", "lots", "Java", but include the four asterisk string in front of each to mark it.

C. Remove Even Strings

Write a method removeEven that takes an ArrayList of Strings as a parameter then removes all strings with even length. For example, suppose that a variable called list contains the following values: {"this", "is", "lots", "of", "fun", "for", "every", "Java", "programmer"} And you make the following call: replace4(list); then list should store the following values after the call: "is", "of", "fun", "for", "every", "programmer"}