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3.import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
public class ClubbedWords {
  public static List<String> findClubbedWords(String[] words) {
     List<String> result = new ArrayList<>();
     Set<String> wordSet = new HashSet<>();
     for (String word: words) {
       wordSet.add(word);
     }
     for (String word: words) {
       if (isClubbedWord(word, wordSet)) {
          result.add(word);
       }
     }
     return result;
  }
  private static boolean isClubbedWord(String word, Set<String> wordSet) {
     if (wordSet.contains(word)) {
       return false; // A word cannot be formed by itself
    }
     int n = word.length();
     for (int i = 1; i < n; i++) {
       String prefix = word.substring(0, i);
       String suffix = word.substring(i);
       if (wordSet.contains(prefix) && (wordSet.contains(suffix) || isClubbedWord(suffix,
wordSet))) {
          return true;
    }
     return false;
  }
  public static void main(String[] args) {
     String[] words = {"mat", "mate", "matbellmates", "bell", "bellmatesbell", "butterribbon",
"butter", "ribbon"};
     List<String> clubbedWords = findClubbedWords(words);
     System.out.println(clubbedWords);
  }
}
```