FINALS SENTENCES JAVA

```
class Result {
 /*
 * Complete the 'generate_sentences' function below.
 *
 * The function is expected to return a STRING.
 * The function accepts following parameters:
 * 1. STRING_ARRAY dictionary
 * 2. STRING sentences
 */
public static String generate sentences(List<String> dictionary, String
public static String generate_sentences(List<String> dictionary, String
sentences) {
 HashMap<Character, ArrayList<String>> dict = new HashMap<>();
 HashMap<Character, Integer> indices = new HashMap<>();
 for (String s : dictionary) {
 char speech = s.charAt(0);
 String[] words = s.substring(2).split(" ");
 dict.put(speech, new ArrayList<>());
 indices.put(speech, 0);
 for (String word : words) {
 dict.get(speech).add(word);
 }
 }
 String result = "";
 boolean firstSentence = true;
 for (String sentence : sentences.split(" ")) {
 if (firstSentence) {
```

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firstSentence = false;
}
else {
result += " ";
}
char type = sentence.charAt(0);
boolean first = true;
boolean wasA = false;
if (type == 'Q') {
result += "What";
first = false;
}
for (char c : sentence.substring(1).toCharArray()) {
String word;
boolean isA = false;
if (c == 'A') {
word = "a"; // TODO: an
isA = true;
}
else if (c == 'T') {
word = "the";
}
else {
int index = indices.get(c);
indices.put(c, (index + 1) % dict.get(c).size());
word = dict.get(c).get(index);
}
if (first) {
first = false;
```

```
result += word.substring(0, 1).toUpperCase() +
word.substring(1);
}
else {
if (wasA
&& (word.toLowerCase().startsWith("a")
|| word.toLowerCase().startsWith("e")
|| word.toLowerCase().startsWith("i")
|| word.toLowerCase().startsWith("o")
|| word.toLowerCase().startsWith("u"))) {
result += "n";
}
result += " " + word;
}
wasA = isA;
}
if (type == 'D' || type == 'I') {
result += ".";
}
}
else if (type == 'Q') {
result += "?";
}
else if (type == 'E') {
result += '!';
}
}
return result;
```