

Exercises: JUnit

You are hired by the US Congress to help reduce tensions and smooth the operation of government. You will be paid \$1 million in taxpayer money to do the following:

- 1.** Make a static method “calmString” that will take a String representing a speech, and remove all the exclamation marks. If you pass in null, the method should return null. Hint: remember the replaceAll method of String.
- 2.** Use JUnit to test it.
- 3.** Make a static method “calmAttendees” that will take a List<String> of political parties invited to social events. If the List contains both "Republican" and "Democrat", it should remove one of the two, but do so at random (i.e., half the time removing "Republican" and half the time removing "Democrat"). Otherwise it should leave the List unchanged. If you pass in null, the method should do nothing.
- 4.** Use JUnit to test it.

Minor hint: you cannot use Arrays.asList to directly make the List that you will test, because the output of Arrays.asList does not support the “remove” method, and presumably your calmAttendees method uses “remove”. However, since you can pass a Collection to the ArrayList constructor, you can do this trick:

```
List<String> attendingParties =  
    new ArrayList<>(Arrays.asList("Republican", "Democrat", ...));
```

This is a bit obtuse, but still easier than making an empty List, then repeatedly calling “add”. If you don’t understand my explanation, just use the obvious but longer approach:

```
List<String> attendingParties = new ArrayList<>();  
attendingParties.add("Republican");  
attendingParties.add("Democrat");  
...
```