```java
private Map<...> count = new HashMap<>();
-synchronized (count) {
-  Pair<Job, String> key =
-    new ImmutablePair<>(jobID, name);

-  if (count.containsKey(key)) {
-    count.put(key, count.get(key) + 1);
   } else {
-    count.put(key, 1);
   }
 }
```

```java
private static final Object lock = new Object();
+synchronized(lock)
+  if (!jobCounts.containsKey(jobID)) {
+    jobCounts.put(jobID, new HashMap<>());
+  }
+  Map<String, Integer> count = jobCounts.get(jobID);
+  if (count.containsKey(name)) {
+    count.put(name, count.get(name) + 1);
   } else {
+    count.put(name, 1);
   }
 }
```

```java
synchronized (obj1) {
  ...
}
```

```java
synchronized (obj2) {
  ...
}
```