


Testing for performance

Execution of a test for a creation of an account with N availableLimit ,and N valid transactions with amount = 1,

Test made with N=100



```
Markers Properties Servers Data Source Explorer Snippets Problems Console
AuthorizerTest [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/bin/java (Aug 28, 2019, 12:48:40 PM)
{"violations": [], "account": {"availableLimit": 2, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 1, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 0, "activeCard": true}}

Time: 261.073

OK (1 test)
```

First try: algorithm implementation as is.

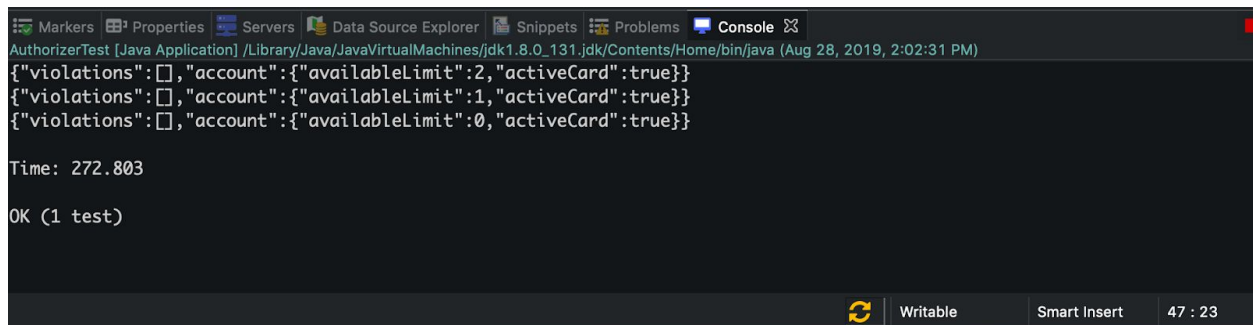


```
Markers Properties Servers Data Source Explorer Snippets Problems Console
AuthorizerTest [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/bin/java (Aug 28, 2019, 1:50:25 PM)
{"violations": [], "account": {"availableLimit": 2, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 1, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 0, "activeCard": true}}

Time: 285.961

OK (1 test)
```

With Account performance:change the sorting method,try with Map.set and Long obj at the dummy Id.



```
Markers Properties Servers Data Source Explorer Snippets Problems Console
AuthorizerTest [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/bin/java (Aug 28, 2019, 2:02:31 PM)
{"violations": [], "account": {"availableLimit": 2, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 1, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 0, "activeCard": true}}

Time: 272.803

OK (1 test)
```

Sorting last moves at transaction validation

```
Markers Properties Servers Data Source Explorer Snippets Problems Console
AuthorizerTest [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/bin/java (Aug 28, 2019, 2:16:56 PM)
{"violations": [], "account": {"availableLimit": 2, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 1, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 0, "activeCard": true}}

Time: 5.175

OK (1 test)
```

With out Long objects at long ids, removing getting values from hz map ,instead implement full Sorted treemap.

An update with a N = 4000:

```
Markers Properties Servers Data Source Explorer Snippets Problems Console
AuthorizerTest [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/bin/java (Aug 28, 2019, 2:54:39 PM)
{"violations": [], "account": {"availableLimit": 2, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 1, "activeCard": true}}
{"violations": [], "account": {"availableLimit": 0, "activeCard": true}}

Time: 258.309

OK (1 test)
```