**Project Under Test: MonkeySim**

Ritika Maknoor

David Bickford

10 November 2016

**CS 1632 - DELIVERABLE 4: Performance Testing Using VisualVM**

**SUMMARY**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Summary*

**SCREENSHOTS OF VISUALVM**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

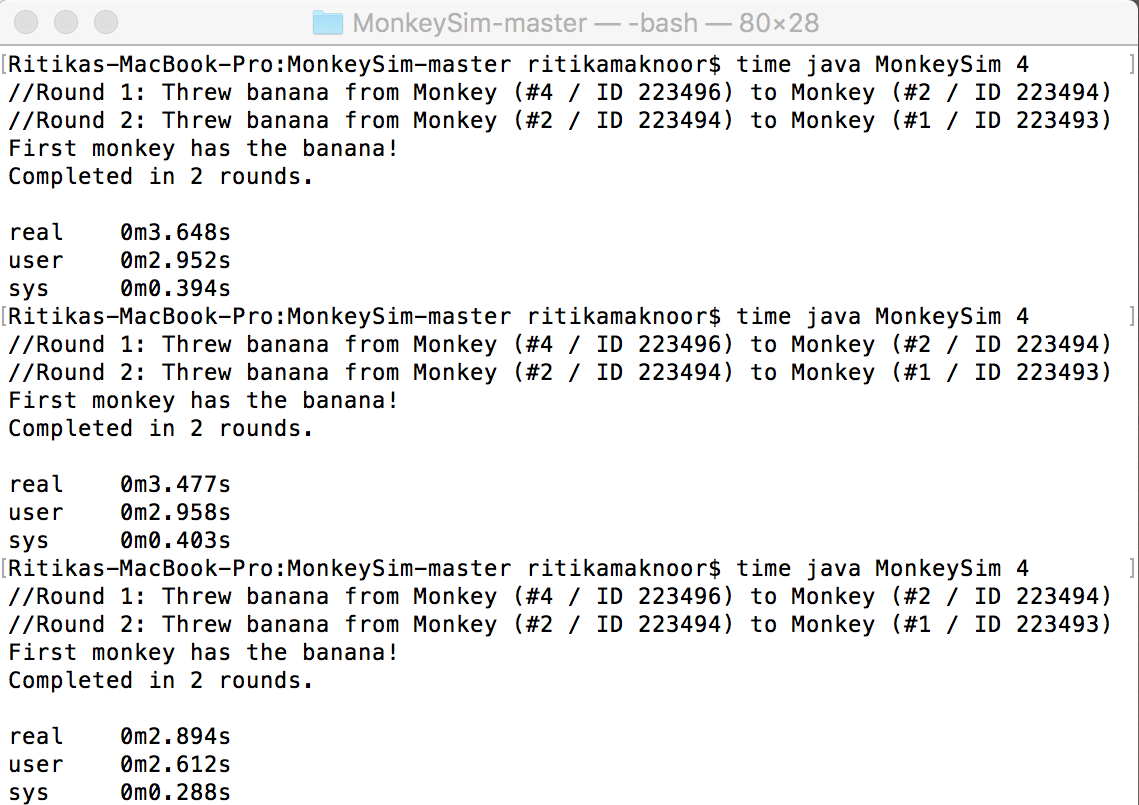
*Screenshots*

**INITIAL & FINAL TIMES**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**BEFORE any refactoring**

**Initial monkey: 4**

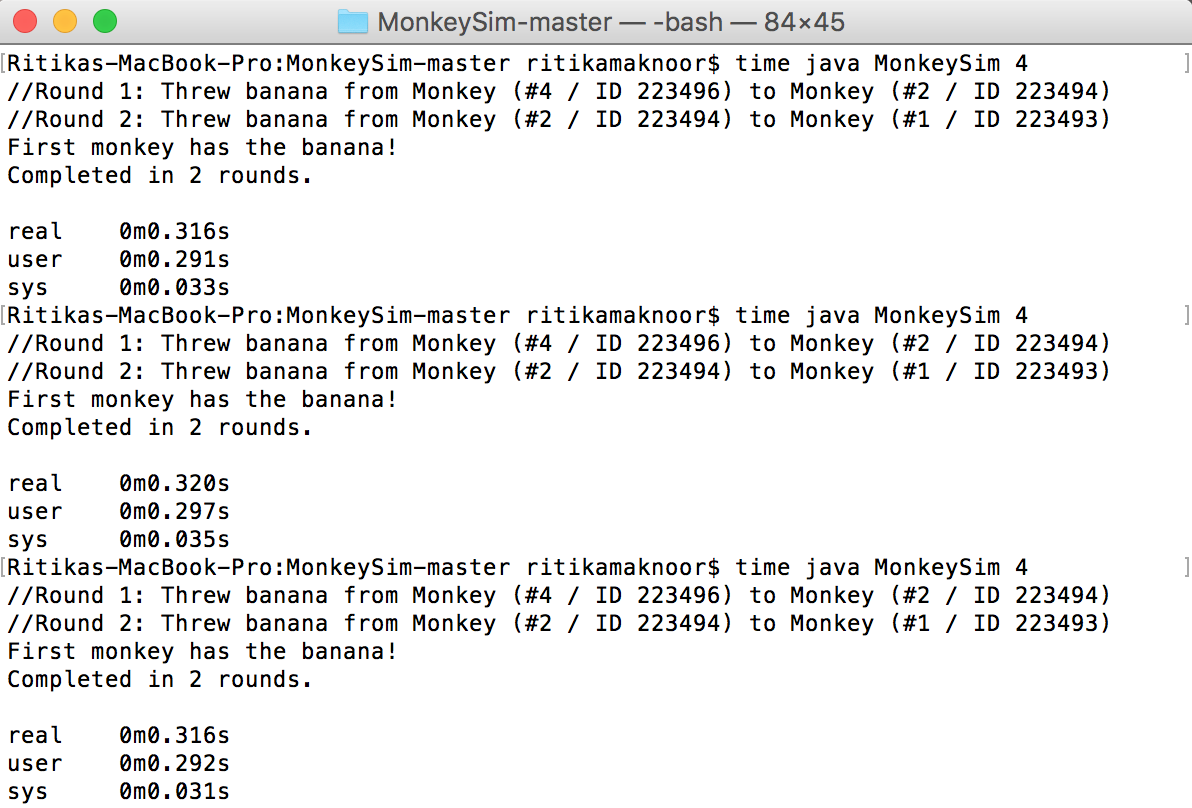


* Max amount of real time: 0m3.648s
* Mean time of real time: 0m3.340s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring stringifyResults()**

**Initial monkey: 4**

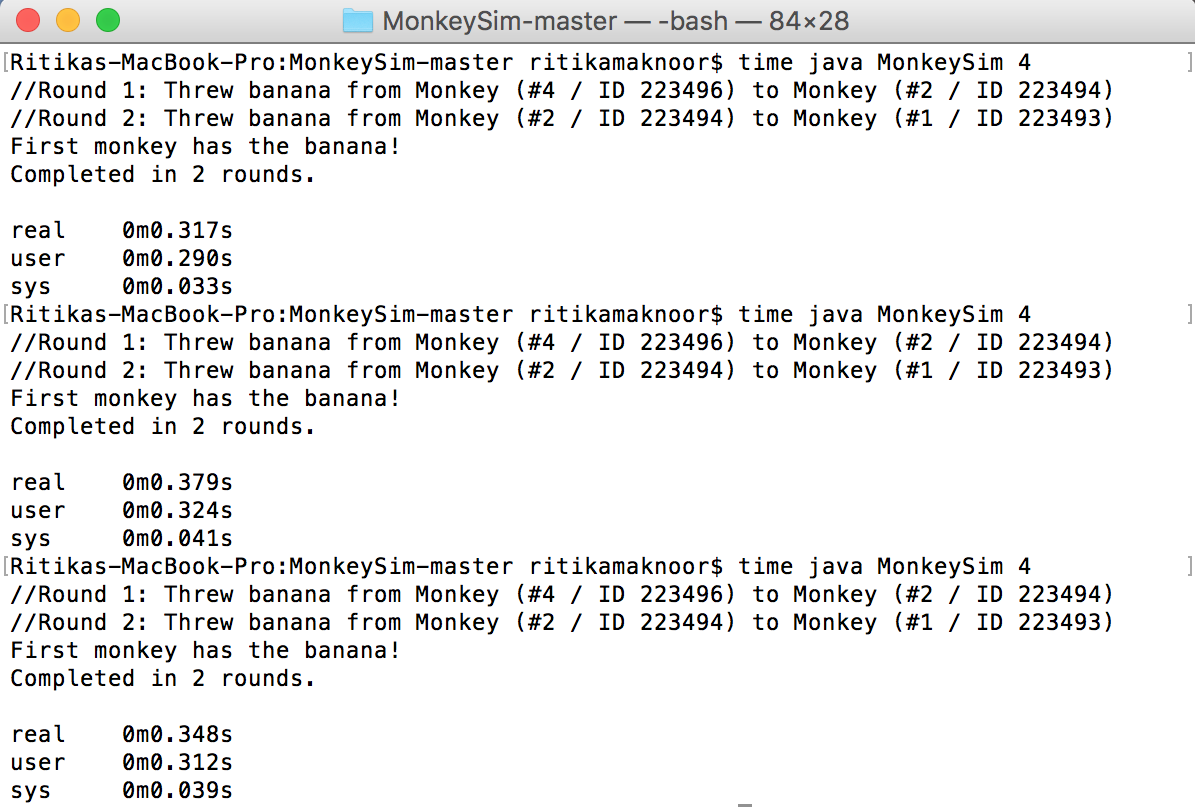


* Max amount of real time: 0m0.320s
* Mean time of real time: 0m0.317s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring getFirstMonkey()**

**Initial monkey: 4**

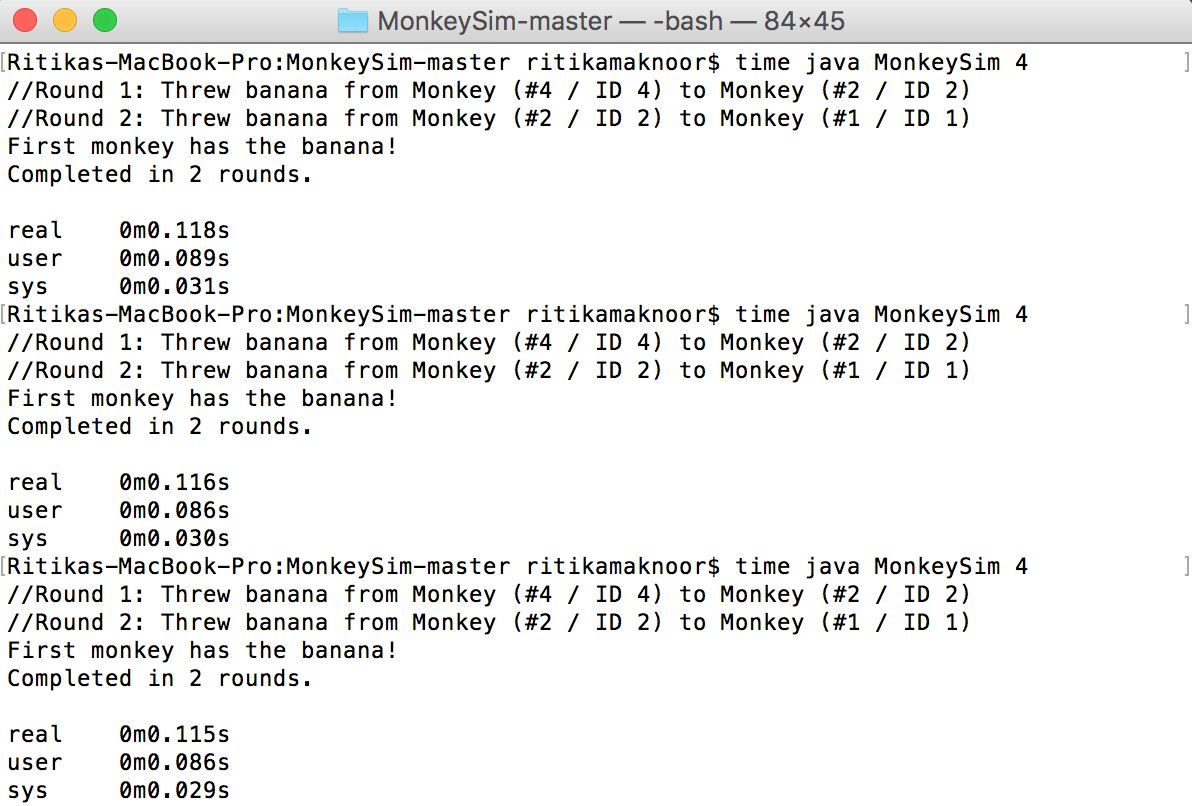


* Max amount of real time: 0m0.379s
* Mean time of real time: 0m0.348s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring generateID()**

**Initial monkey: 4**

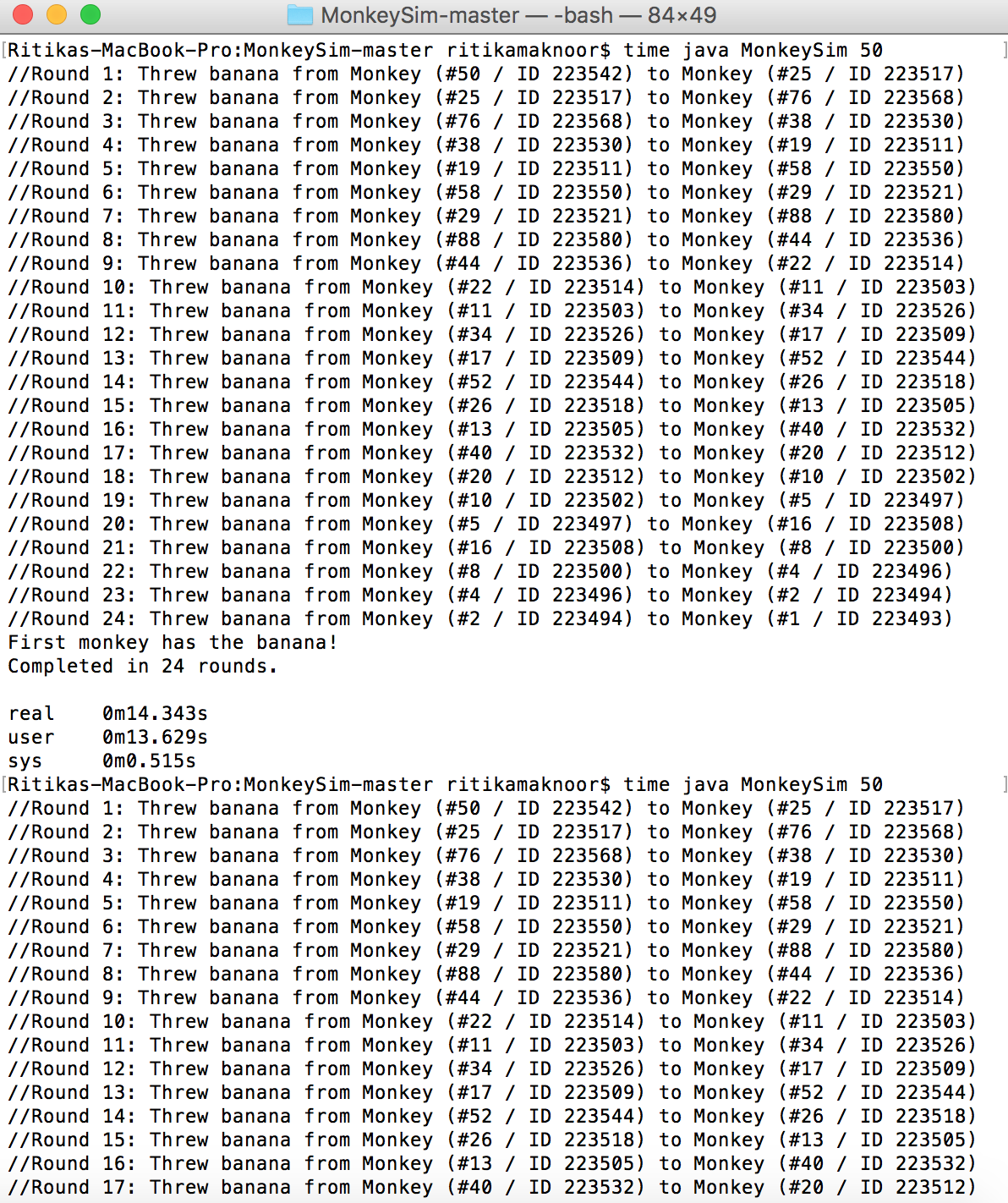


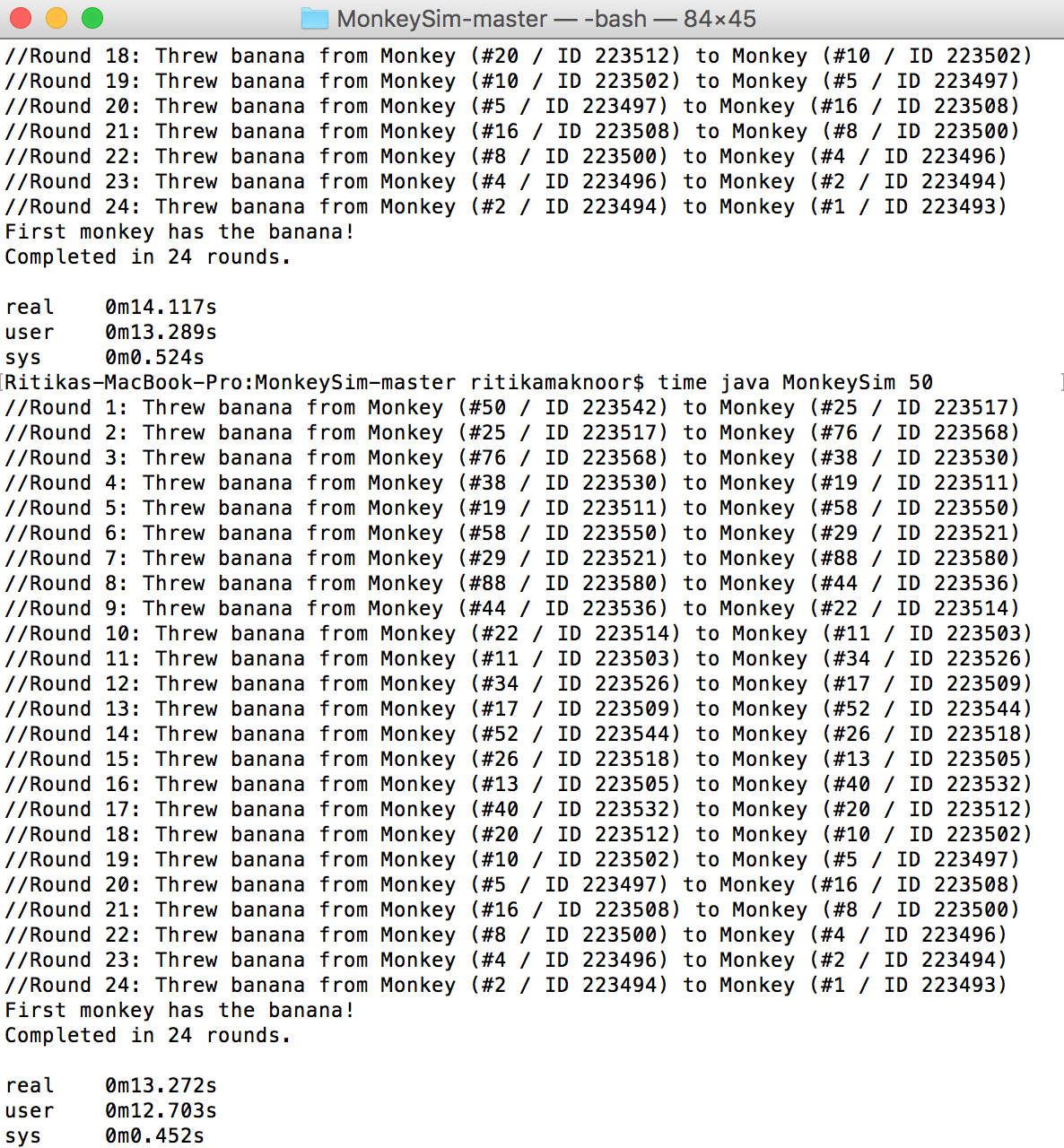
* Max amount of real time: 0m0.118s
* Mean time of real time: 0m0.116s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**BEFORE any refactoring**

**Initial monkey: 50**



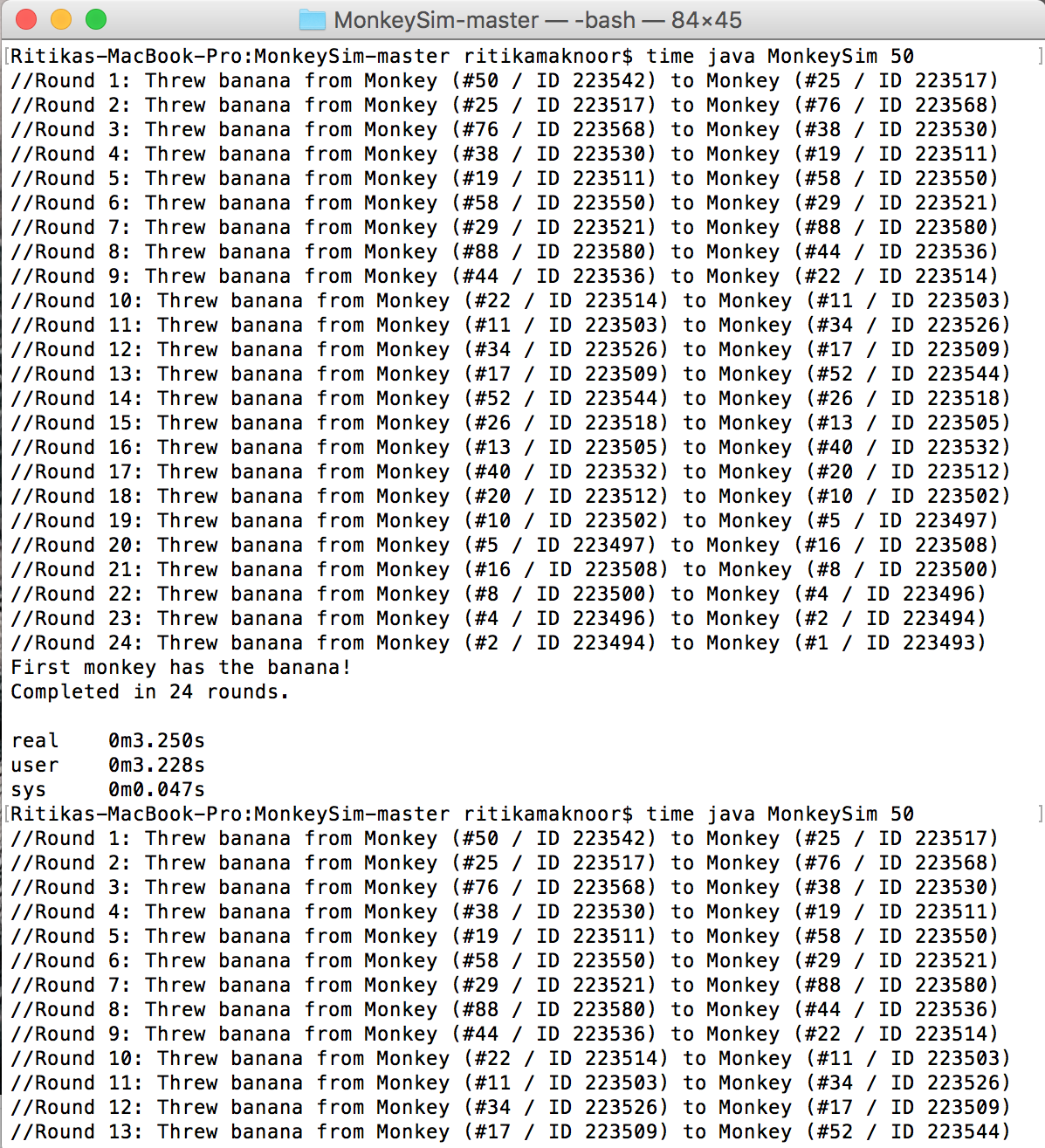


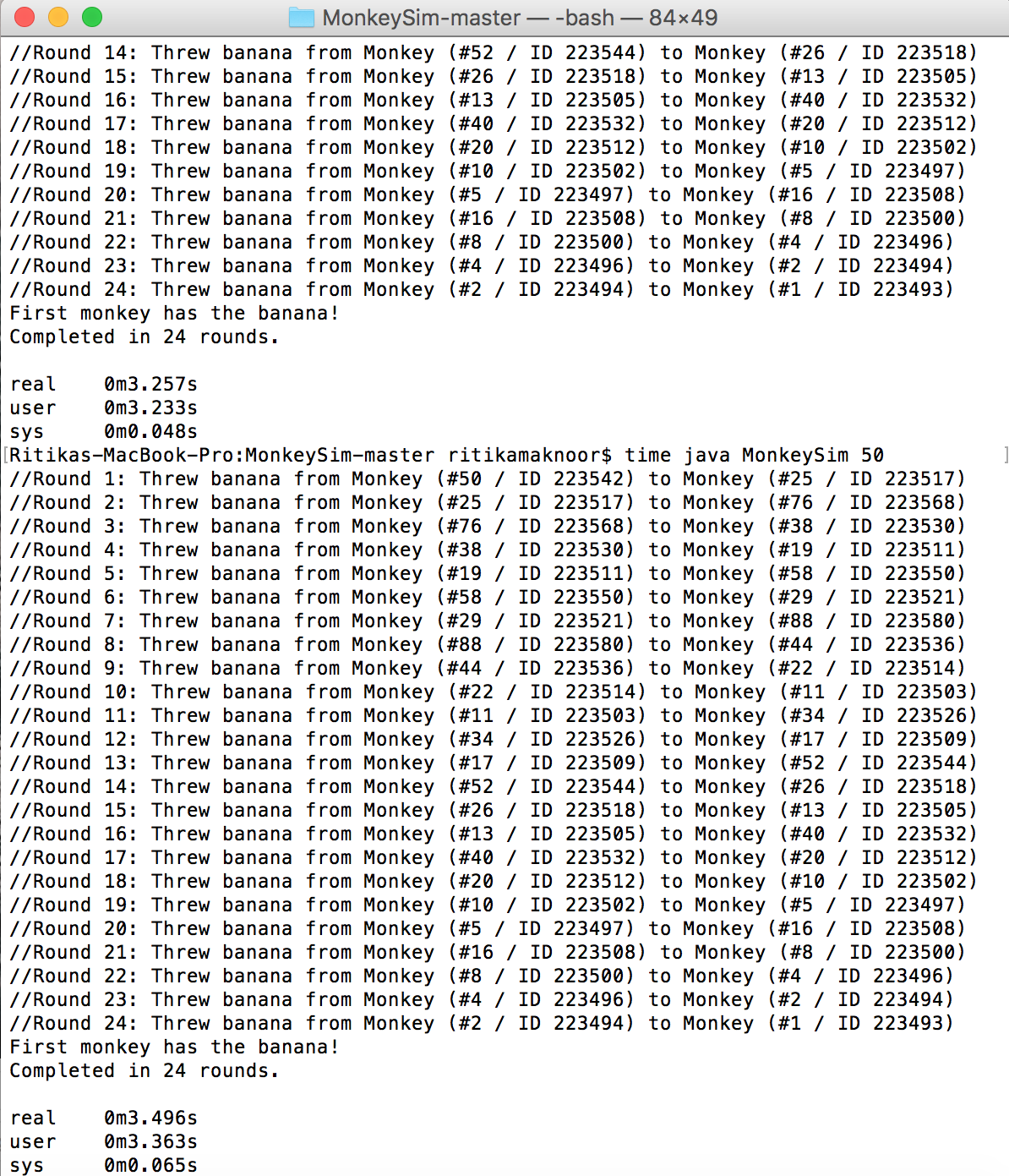
* Max amount of real time: 0m14.343s
* Mean time of real time: 0m13.910s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring stringifyResults()**

**Initial monkey: 50**



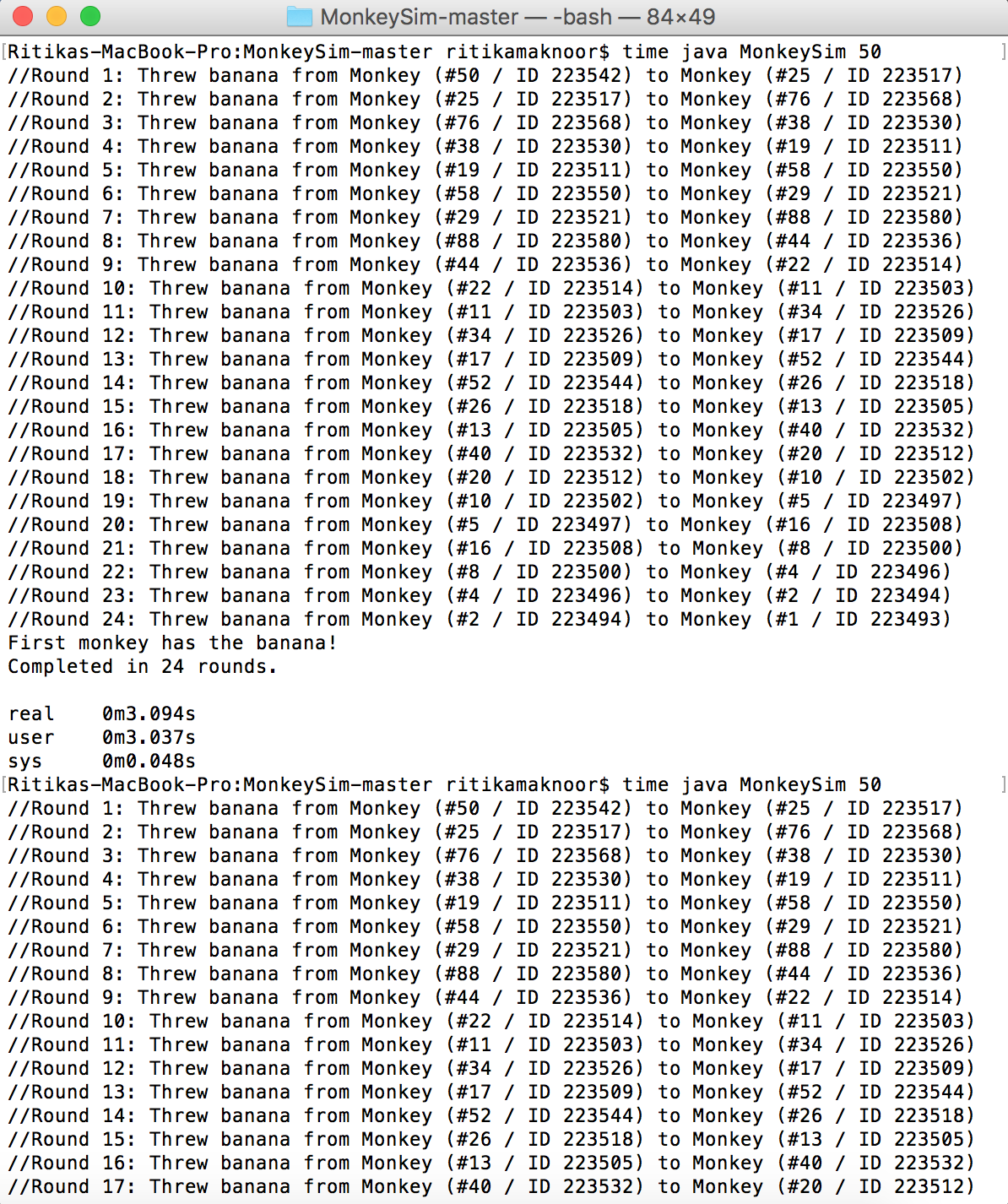


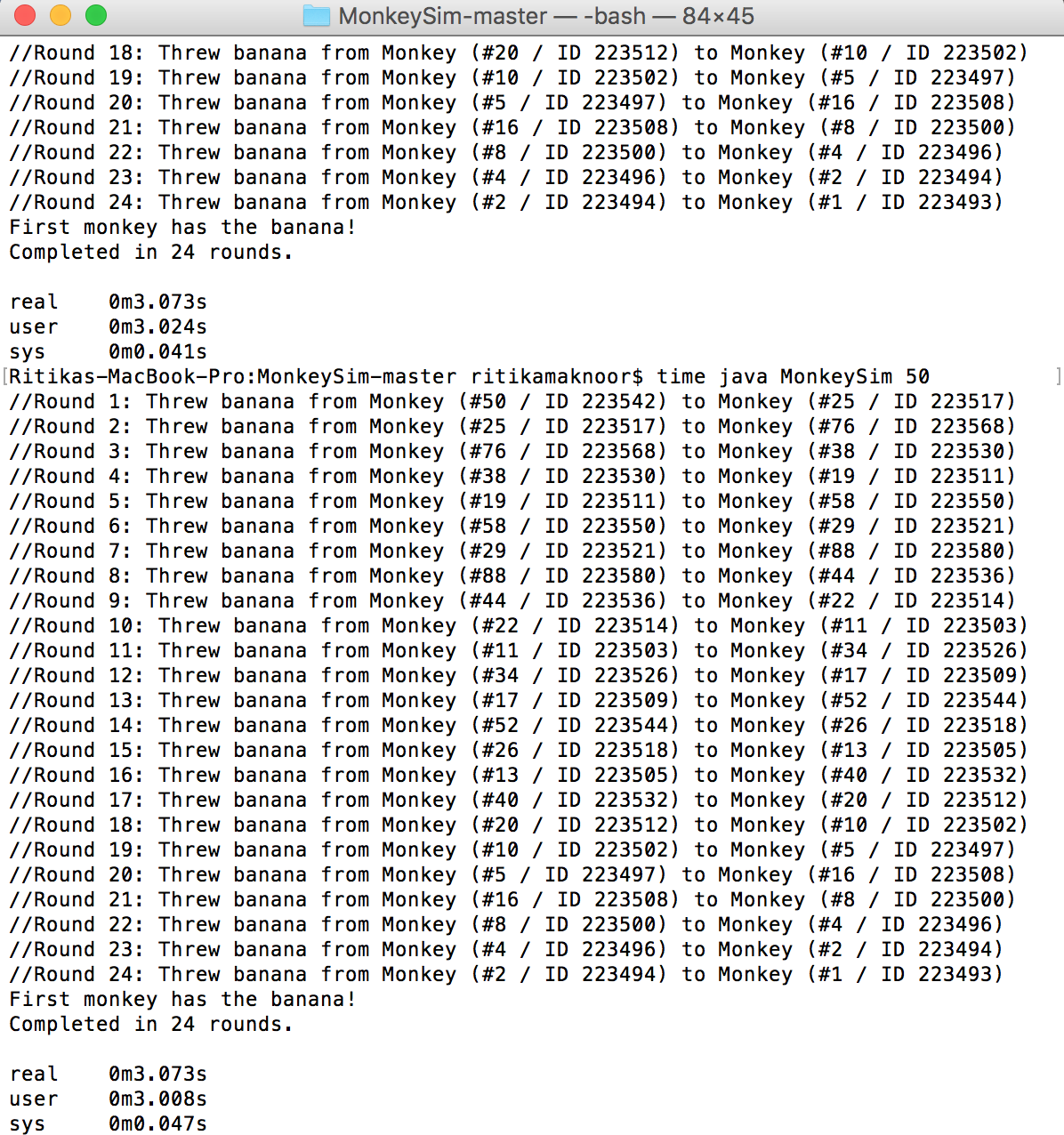
* Max amount of real time: 0m3.496s
* Mean time of real time: 0m3.334s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring getFirstMonkey()**

**Initial monkey: 50**



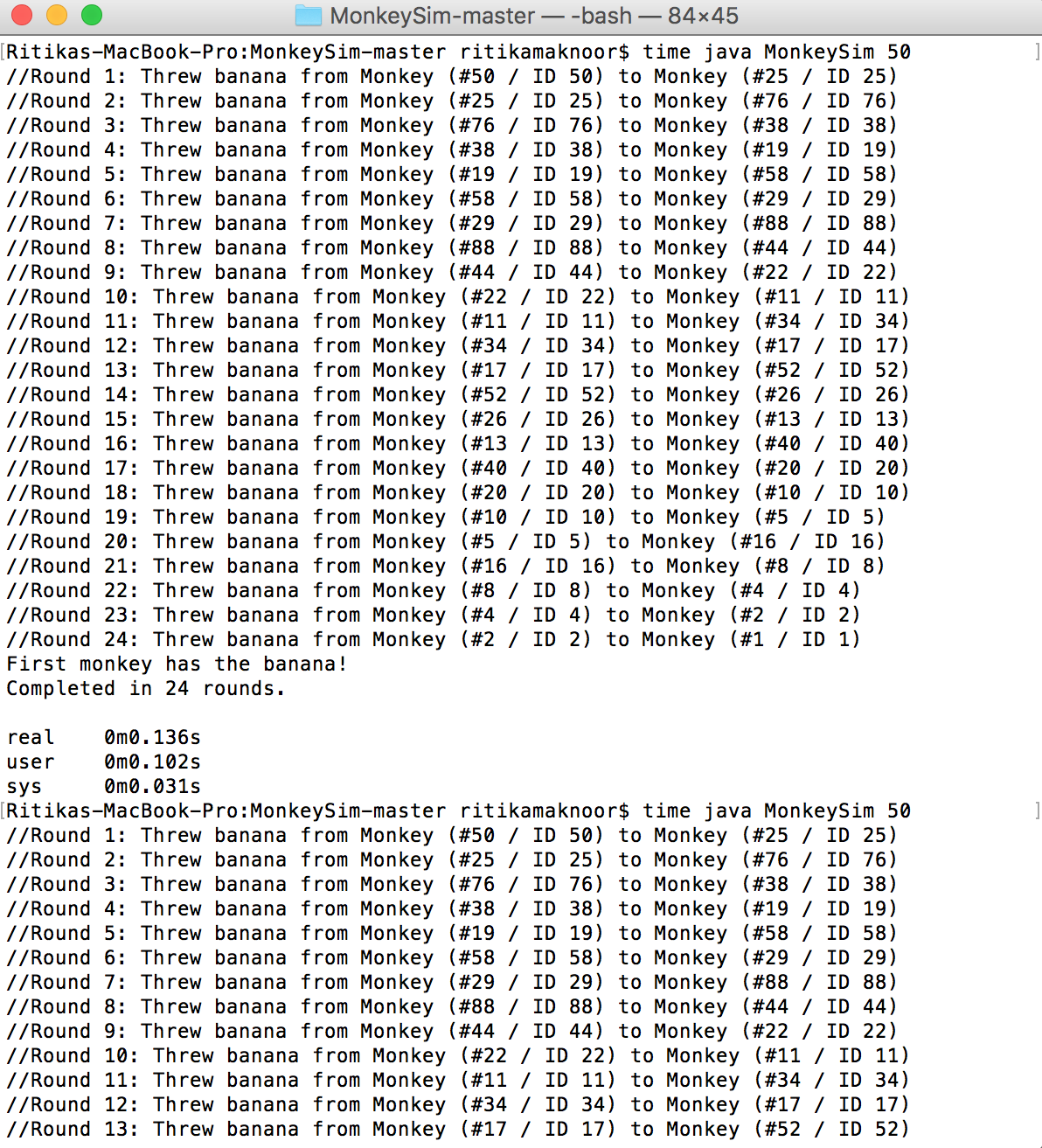


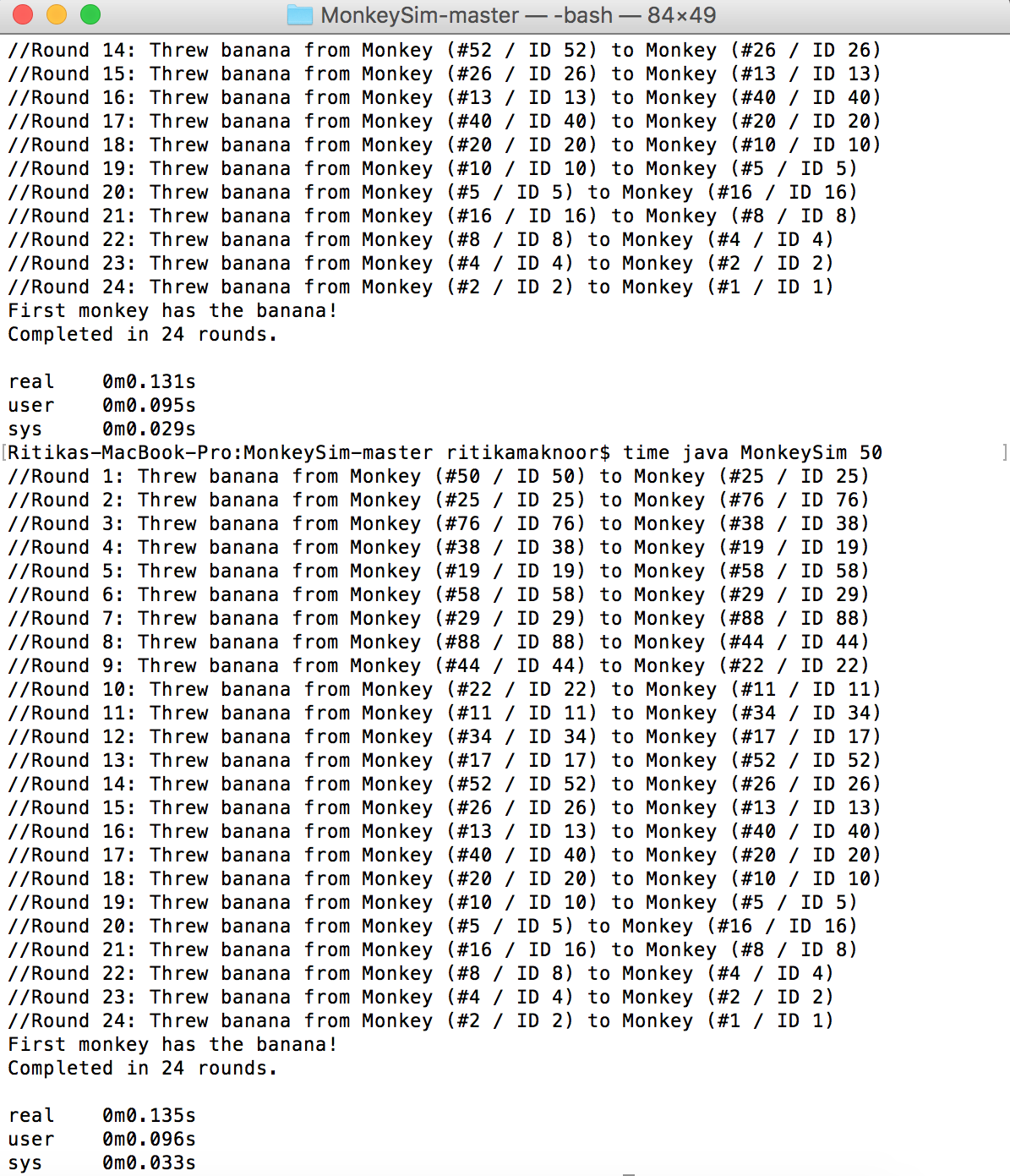
* Max amount of real time: 0m3.094s
* Mean time of real time: 0m3.080s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**AFTER refactoring generateID()**

**Initial monkey: 50**





* Max amount of real time: 0m0.136s
* Mean time of real time: 0m0.134s

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_