

**CS 1632 Software Quality Assurance**

**Exercise 4**

Member 1 Name:

Member 2 Name:

Team Name:

1. **Profile before optimization**

Insert hotspot-before.png here ***before*** performing refactoring and optimization.

1. **Profile before optimization**

Insert hotspot-after.png here ***after*** performing refactoring and optimization. If you have done a good job refactoring, the four methods that you optimized should have drastically reduced runtimes.