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I pledge my honor that I have abided by the Stevens Honor System.
Homework 07

1. Microsoft, before agile methods, had engineers that would stop and fix bugs on a daily basis. This process was noted by Poppendieck and Cusumano as a "sync and stabilize" process. Furthermore, Microsoft had short cycles and milestone intervals, they had small teams, and had automated build tools and quick testing. This is similar to Lean and all of Lean's principles. They also had continuous integration testing, which is critical to the Lean methodology.

2. Value Stream Mapping is a diagram that shows the flow of goods and information. There are two maps that are created. There is a current map, which shows the current situation and there is a future map, which shows the desired situation. What value stream mapping does is it identifies waste that should be removed from the current map and changes needed to establish the future map. This is important because it can help eliminate waste and make for a better lean development. This helps to see the whole, which is another principle of lean.

3. Our process is very simple. Whenever anyone wants to add anything to the github, they must submit a pull request and at least two people must approve this merge request. We have a built-in automated testing in which a script is run to ensure that this new merge would not fry our whole program (which would take forever to debug if we did not have this in place). Once two people approve, the new commit is added to the master branch and subsequently, this process follows every time as long as no one has any concerns. We add tests to the testing script as we add new code as well.

4. If we want to eliminate waste, perhaps automatically assigning two people everytime a commit is added would be easier than notifying everyone and we might have repeats in that case. Additionally, creating test cases that would encompass more errors at once would help us from having a bunch of repeat cases.