

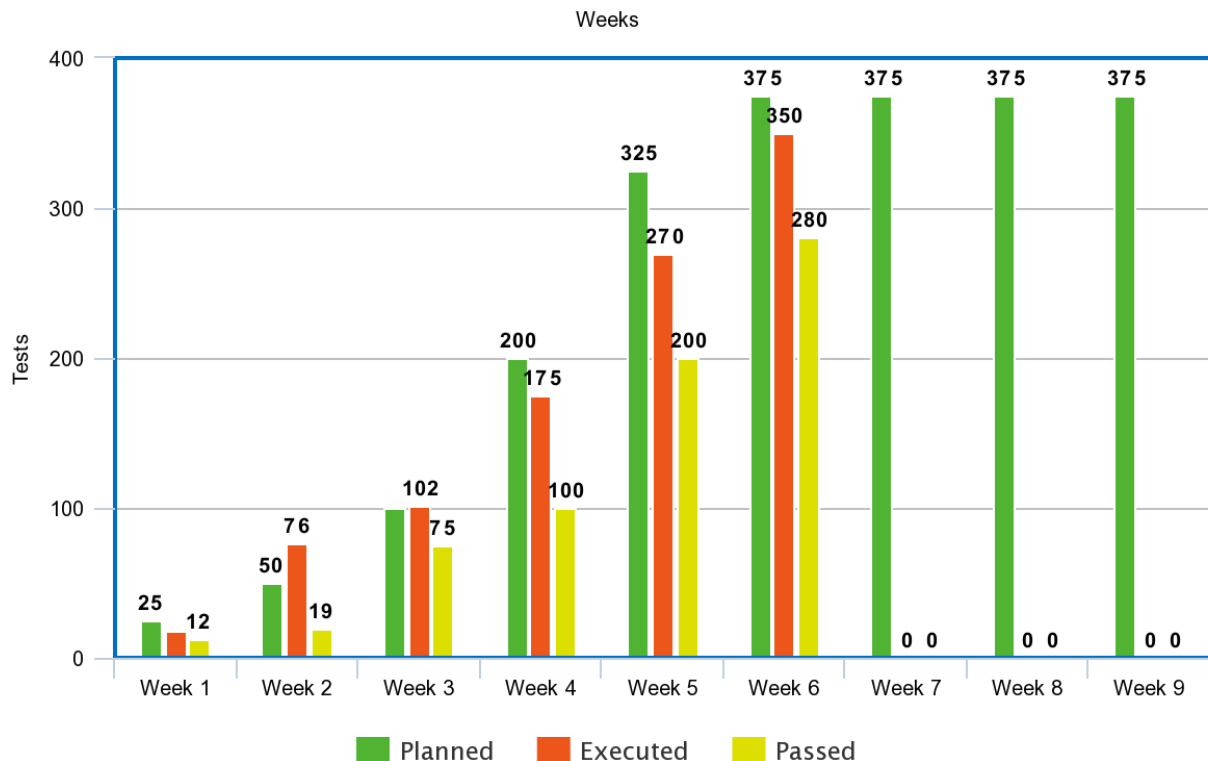
Homework 11: Testing Progress

Author: Syed Zain Raza

In this report I will be analyzing different results of testing strategies that have been used to find that whether we should release our product within 2 weeks or not.

System Test:

During the system test that we performed in first 6 weeks, we included tests that were planned, tests which got executed and tests which were passed. Making this division helped us to see the bigger picture and move forward with more confidence. We started with 25 tests planned for first week. Out of these 18 got executed and 12 passed. As weeks went on, we reached 375 tests planned for sixth week. Following bar chart gives a more abstract view

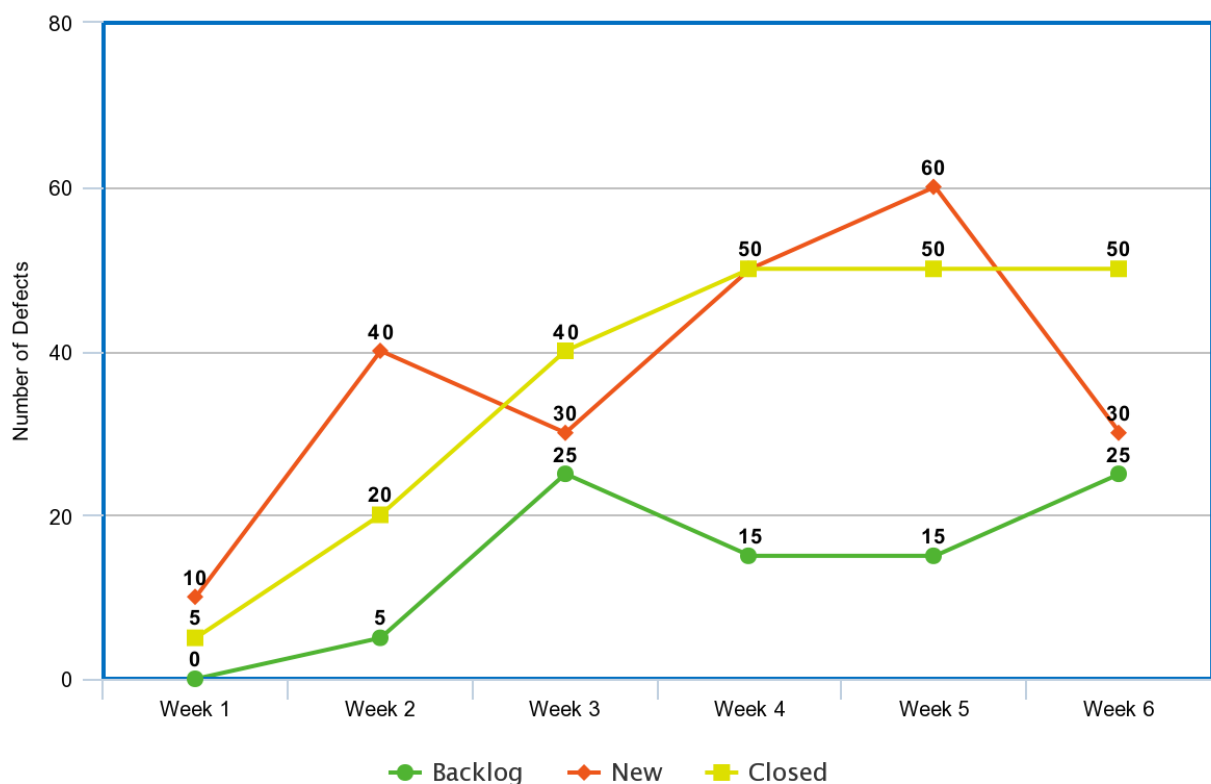


This graph shows that tests executed, and tests passed both increased with each week passing by. In the next two weeks we will only have 95 remaining tests to be passed which means depending on the current trend we will be able to achieve 99% tests executed and 98% tests passed.

Defects:

This section will show how much defects we found out in each week. We divided these defects into three sections namely Backlog, New and Closed.

Following line chart shows defects for all six weeks



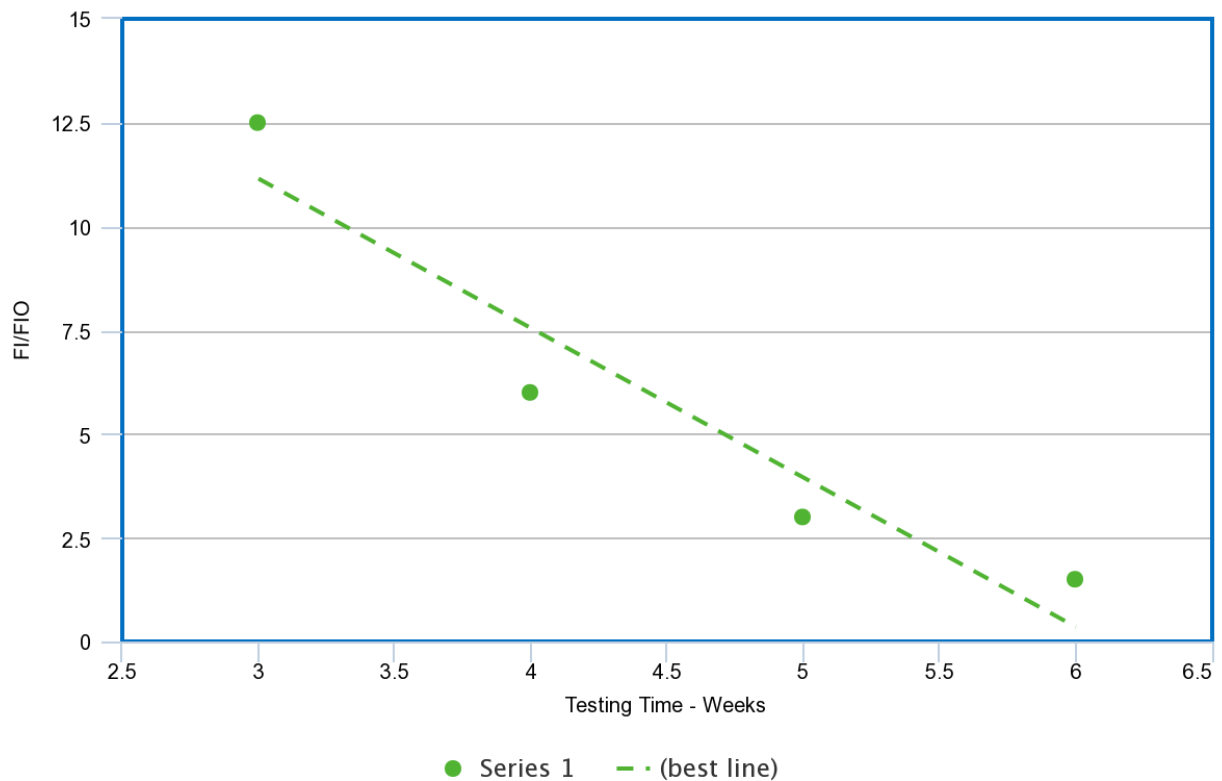
meta-chart.com

As it can be seen that defects closed increased in all the weeks. We still have 25 defects in backlog but as new defects found are less, we will be able to complete it by next two weeks.

Operational Testing:

This section will show how during week 3 we started gathering defects and measuring failures. From third week, we calculated failures per execution day for each week afterwards. This helped us to calculate FI(Failure Intensity) and ratio FI/FIO (Failure Intensity Objective)

Following scatter plot will show how in each week ratio FI/FIO decreased



meta-chart.com

This shows that with each week FI/FIO ratio was cut in half. If we follow the same trend, we will be able to make it less than 0.5 in the last week.

Result:

Looking at all the data that has been presented above, we have decided to move on with the decision that **release should be made after two weeks**. As shown in each section that we will be able to meet all the requirements i-e less than 2 defects per day, greater than 99% tests executed, greater than 98% tests passed and less than 20 open defects.

Defects After One Year of Release:

Defects after one year can be found out by looking at the ratio of defects of previous releases. In the previous four releases we got 1.4, 1.2, 1.3 and 1.1 ratio of defects. This means an average of 1.25

Using this average, we can find defects after one year. As the number of failures found during operational testing were 230, dividing it by average we get $230/1.25$ which means a total of 184 failures during the course of one year.

Honor Pledge:

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