Regression Benefits of TDD

Software Systems

- · Software Systems grow in size over time.
- They grow in complexity and they evolve.

Evolutionary

- As the size and complexity grows, it becomes almost impossible to run tests manually.
 - So we just test some things.
 - We may just test things that are commonly used. Then, we wait.
 - Eventually, we get reports from the testers/users/customers about bugs etc.

When things go wrong

- Software is a non-linear system → some change here might break something there.
- The amount of money it takes to find and fix a problem is proportional to the time between when the code was modified and when the problem was detected.

Feedback Loop

- · Very critical.
- The sooner we know that something is wrong in the code we wrote, the better it is.
 - The less costly it is.
 - The less time-consuming it is.

Using TDD doesn't prevent bugs — it just makes sure bugs don't recur in the code.

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