



# Testing Limitations

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.. Continuing the *Beginners Guide to Software Testing series*

## Testing Limitations

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- You cannot test a program completely
- We can only test against system requirements
  - May not detect errors in the requirements.
  - Incomplete or ambiguous requirements may lead to inadequate or incorrect testing.
- Exhaustive (total) testing is impossible in present scenario.
- Time and budget constraints normally require very careful planning of the testing effort.
- Compromise between thoroughness and budget.
- Test results are used to make business decisions for release dates.
- Even if you do find the last bug, you'll never know it
- You will run out of time before you run out of test cases
- You cannot test every path
- You cannot test every valid input
- You cannot test every invalid input

**Must Read** – [The Impossibility of Complete Testing](#) by Dr. Cem Kaner

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