

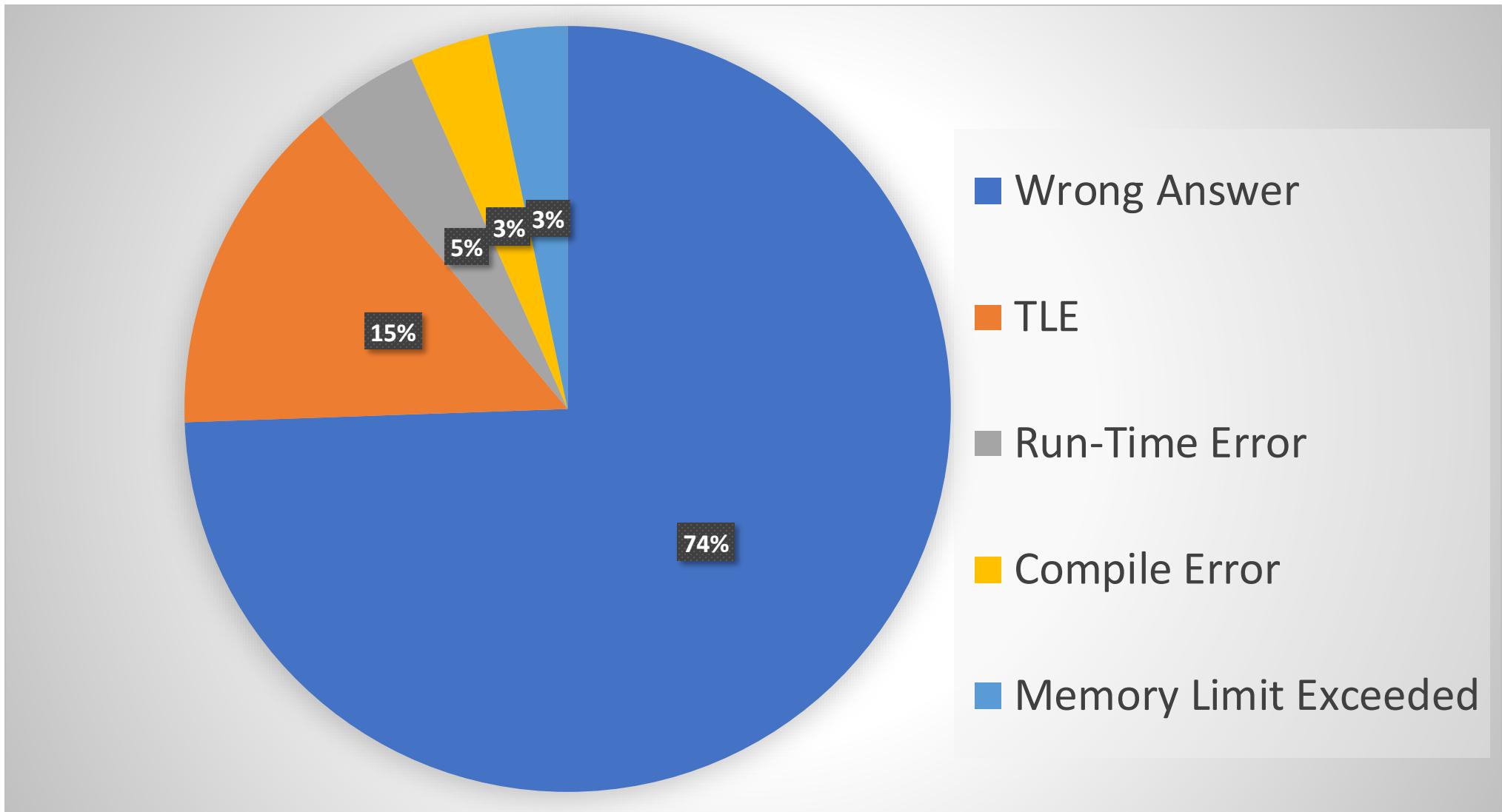
# Competitive Programming

Recovery from Failure

# Submission Outcomes

- After you submit
  - Accepted
  - Wrong Answer
  - Time Limit Exceeded (TLE)
    - Output Limit Exceeded
  - Runtime Error
    - Memory Limit Exceeded
  - Compile Error

# My Unsuccessful Judgments



# Re-read the Problem

- Look for details you may have missed
  - Sufficient capacity for your types?
  - Possible negative values?
  - Non-obvious inputs
    - Multiple edges between graph nodes or self loops
    - Duplicate values
  - Sneaky test cases you could write?
  - Multiple test cases in the input?
- **You can do this offline**



# Read your code

- Look for silly mistakes
  - Using the wrong variable, array, etc.
  - Forgetting to implement something
  - Bad logic / conditionals
  - Forgetting to reset, initialize or re-initialize something
- **Print out your code and you can do this offline**

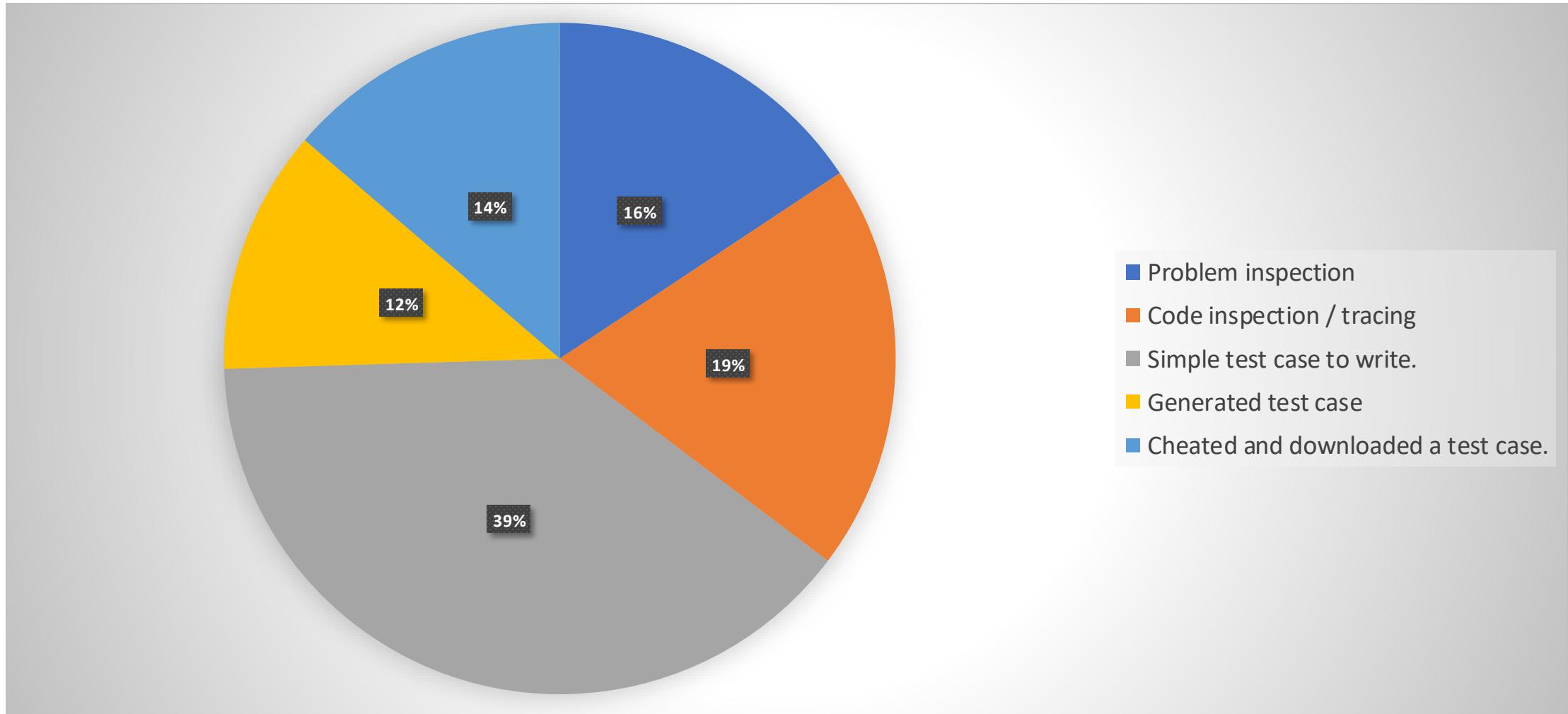
# Write some test cases

- Can you write a simple test case that
  - demonstrates a special case?
  - achieves the worst-case performance of your technique?
- You can (mostly) work on this offline

# Generate some test cases

- You can try writing some code to generate a test case.
- A randomly generated test can help you with:
  - cases you wouldn't think of.
  - large tests you couldn't write yourself.
- You may be able to write a simple, naïve solution to compare against.
- This does require access to the computer ☹

# Fixing My Mistakes



# My Mistakes

