









Robustness testing

- A simple extension to boundary value analysis
- Add two more values per variable
 Slightly greater than the maximum
 - Slightly less than the minimum
- What is the expected output?
 - Hopefully error message, system recovers
- Implementing these test cases may not be possible

Worst-Case Testing

- Rejects the simple fault assumption and tests all combinations of values
- Instead of 4n+1 test cases, we have 5ⁿ
- Often leads to a large number of test cases with low bug-finding power
- Usually better to apply Special Value Testing: test cases based on the tester's intuition

Add the values min- and max+ to the possible variable values Now take all combinations of variable

- values
- What is the number of test cases?

Limitations Does not work well for boolean variables We will see a more suitable approach next week Does not work well for logical variables PIN, transaction type Assumes independent variables

In class activity You are asked to test a software program that accepts a date as input and returns the next date Apply Boundary Value Analysis How satisfied are you with the results?

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