Slightly Less Randoop

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What is Randoop and Where Does it Fall Short?

Test generation tool, input = source code, output = JUnit tests

Selects random methods to test using random inputs

Randomness can expose cases that haven't been considered

Hard to gain confidence with random testing, need a way to measure success

Branch coverage - why does it matter?

Approach

Parse input program

Identify conditional branches

Generate inputs

End goal - an implementation of Randoop that has a higher branch coverage rate than the current one.

Challenges and Risks

Ramp up time

Integrating our code into the project

Scalability