Random Testing

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Delta Debugging
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• DeltaDebugger should return a relevant (1-minimal) configuration.

• => There might be more than 1 relevant configuration.
Example

To minimize:

```java
x = x + 1
if(true){
  x *=2;
}
fail();
```

Relevant Configurations:

```java
fail();
```

```java
if(true){
fail();
}
```
Tests

- DeltaDebuggerTest.testDeltaDebuggerTwoExceptions() has 2 relevant Configurations.
- Currently only one is accepted by test.
- This will be changed for grading.
• CombinedTest.testStackClazz() might fail under specific circumstances.

• Test will not be used for grading.
Limit Unsuccessful Calls

• How often should the test generator try to call a method?

• Introduce a parameter for unsuccessful attempts.

• Initialize with default value, e.g. 5.

• We will not specifically test for this.
Test Limit

• Is measured on the produced test file.
• Only the number of calls to the class to test are taken into account.
• Behavior in case of inheritance is not defined → will not be tested.
• Program must terminate - no endless loops.