# Random Testing + Delta Debugging

## Delta Debugging

- DeltaDebugger should return a relevant (1-minimal) configuration.
- =>There might be more than I relevant configuration.

## Example

#### To minimize:

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

Relevant Configurations:

```
fail();
```

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

#### Tests

- DeltaDebuggerTest.testDeltaDebuggerTwo
   Exceptions() has 2 relevant Configurations.
- Currently only one is accepted by test.
- This will be changed for grading.

#### Test

- 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.