

# Exercise 2: Programming Task Correction Notes

Formal Methods II, Fall Semester 2013

1 November 2013

A commented example solution for the Python programming task (4c, d and Bonus) is provided for download on the course website <http://www.ifi.uzh.ch/ailab/teaching/formalmethods2013.html>.

The submitted solutions were automatically checked against the following test cases:

## Task 4c

```
2-3x(4+5) = -25
10+10     = 20
20x30    = 600
10+(20x30) = 610
(10-10)x5 = 0
(10-4)x5  = 30
5x(10-4)  = 30
5x5x5    = 125
1x2x3     = 6
```

## Task 4d

No output is required in the variable assignment case, but the variables need to yield the correct value in the evaluation of the successive expressions.

```
2-3x(4+5) = -25
a = 2+3x4
a         = 14
ax2      = 28
a=2x4
a        = 8
b=2+3
b       = 5
c=2-10
c      = -8
ax2+b-c = 29
```

## Bonus Task

All the following expressions should be correctly identified as invalid.

```
2(
4/4
2)
4/
/6
3(5/4
```