
Concepts of Programming Languages

<http://proglang.informatik.uni-freiburg.de/teaching/konzepte/2009ss/>

Exercise Sheet 11

2009-07-09

Exercise 1 (4 points)

Write a module that implements arithmetic using a representation in which the integer k is represented as $5 * k + 3$. Your module should have to following interface:

```
[type definition for t
 zero : t
 succ : (t -> t)
 pred : (t -> t)
 is-zero : (t -> bool)
]
```

The component *type definition for t* is either a transparent or opaque type component of name t .

Submission

On paper (please don't send me emails). The strict submission deadline is **2009-07-16, 3 pm** (before the exercise session).