Languages-beta: IMP-2 *

The PLanCompS Project

```
IMP-2.cbs | PLAIN | PRETTY
```

Language "IMP"

2 Boolean expressions

```
Syntax BExp: bexp: = 'false'
| 'true'
| aexp'<='aexp
| '!' bexp
| bexp'&& bexp
| '('bexp')'

Semantics eval-bool[ _: bexp ]]: ⇒ booleans
Rule eval-bool[ 'false'] = false
Rule eval-bool[ 'true'] = true
Rule eval-bool[ AExp1 '<=' AExp2 ]] =
| is-less-or-equal(eval-arith[ AExp1 ]], eval-arith[ AExp2 ]])
Rule eval-bool[ '!' BExp ]] = not(eval-bool[ BExp ]])
Rule eval-bool[ BExp1 '&& BExp2 ]] =
| if-true-else(eval-bool[ BExp1 ]], eval-bool[ BExp2 ]], false)
Rule eval-bool[ '(' BExp ')']] = eval-bool[ BExp ]]
```

^{*}Suggestions for improvement: plancomps@gmail.com.
Reports of issues: https://github.com/plancomps/CBS-beta/issues.