第１１回

実行結果

```
CafeOBJ> in subject11/ex1.cafe

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/./subject11/ex1.cafe

-- defining module PNAT1
-- reading in file  : bool

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/bool.cafe

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/base_bool.cafe

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/truth.cafe

-- defining module! TRUTH
-- reading in file  : truth

-- done reading in file: truth

-- defining module* BASE-BOOL
-- reading in file  : eql

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/eql.cafe

-- defining module! EQL
-- done reading in file: eql

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/sys_bool.cafe

-- defining module! BOOL
-- done reading in file: bool

-- opening module PNAT1
-- reduce in %PNAT1 : (((0 + y) + z) = (0 + (y + z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 17 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : (((s(x) + y) + z) = (s(x) + (y + z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 6 rewrites + 73 matches)
-- opening module PNAT1
```

```
-- opening module PNAT1
-- reduce in %PNAT1 : ((0 + y) = (y + 0)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 6 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : ((s(x) + y) = (y + s(x))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 5 rewrites + 35 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : ((0 + 0) = 0):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 2 rewrites + 4 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : ((s(x) + 0) = s(x)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 8 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : ((0 + s(y)) = s((0 + y))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 7 matches)
-- opening module PNAT1
-- reduce in %PNAT1 : ((s(x) + y) = s((x + y))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 29 matches)
-- defining module PNAT2
-- opening module PNAT2
-- reduce in %PNAT2 : (((0 + y) * z) = ((0 * z) + (y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 18 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : (((s(x) + y) * z) = ((s(x) * z) + (y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 5 rewrites + 87 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : (((0 * y) * z) = (0 * (y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 6 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : (((s(x) * y) * z) = (s(x) * (y * z))):Bool
(true):Bool
```

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(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 6 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : (((s(x) * y) * z) = (s(x) * (y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 5 rewrites + 94 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((0 * 0) = 0):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 2 rewrites + 4 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((s(x) * 0) = 0):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 8 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((0 * s(y)) = ((0 * y) + 0)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 6 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((s(x) * s(y)) = ((s(x) * y) + s(x))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 7 rewrites + 120 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((0 * y) = (y * 0)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 6 matches)
-- opening module PNAT2
-- reduce in %PNAT2 : ((s(x) * y) = (y * s(x))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 4 rewrites + 34 matches)
-- defining module PNAT3
-- opening module PNAT3
-- reduce in %PNAT3 : ((y * sfact2(0,z)) = sfact2(0,(y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 3 rewrites + 13 matches)
-- opening module PNAT3
-- reduce in %PNAT3 : ((y * sfact2(s(x),z)) = sfact2(s(x),(y * z))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 7 rewrites + 133 matches)
-- opening module PNAT3
-- reduce in %PNAT3 : (fact1(0) = fact2(0)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 5 rewrites + 8 matches)
-- opening module PNAT3
-- reduce in %PNAT3 : (fact1(s(x)) = fact2(s(x))):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 12 rewrites + 36 matches)
```