レポート6

EX1

```
PS C:\Users\rmjap\Downloads\cafeobj-1.6.2-sbcl-win64\dist\cafeobj-1.6-sbcl> ./CafeOBJ.exe

-- loading standard prelude

-- CafeOBJ system Version 1.6.2(PigNose0.99) --
built: 2024 Nov 16 Sat 8:40:04 GMT
prelude file: std.bin
***

2025 Jul 4 Fri 4:13:45 GMT
Type ? for help
***

-- Containing PigNose Extensions --
built on SBCL
2.4.8

CafeOBJ> in subject6/ex1.cafe

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/./subject6/ex1.cafe

-- defining module! NAT-TRIPLE-IMLM
-- reading in file : nat

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

-- defining module! NAT-rriple-IMLM
-- reading in file : nznat
```

```
-- defining module! NAT
-- reading in file : nznat

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/lib/nznat.cafe
-- defining module! NZNAT
-- 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* 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
-- defining module! EQL
-- done reading in file: eql
```

```
-- defining module! EQL
-- done reading in file: eq1

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

-- done reading in file: nznat

-- done reading in file: nznat

-- defining module! NAT-TRIPLE-OMLM
-- defining module! NAT-TF
-- defining module! GITST
-- defining module! GITST
-- defining module! INF-LIST
-- defining module! NAT-INF-LIST
-- defining module! ERATOSTHENES-SIEVE
-- defining module! ERATOSTHENES-SIEVE
-- defining module! STATE
-- defining module! COMP
-- defining module! SCHED
-- defining module! SCHED
-- defining module! SCHED
-- defining module! SCHED
-- defining module! STATE
```

レポート6 2

```
, pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: ms) | ((locked: true , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | (locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | (locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs) | ((locked: false , pc1: rs , pc2: rs)
```

Ex2

```
CafeOBJ> in subject6/ex2.cafe
processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/./subject6/e
x2.cafe
 -- defining module! NAT-TRIPLE-IMLM
[Warning]: Redefining module NAT-TRIPLE-IMLM
 -- defining module! NAT-TRIPLE-OMLM
[Warning]: Redefining module NAT-TRIPLE-OMLM
-- defining module! NAT-IF
[Warning]: Redefining module NAT-IF
-- defining module! GLIST
[Warning]: Redefining module GLIST
 -- defining module! INF-LIST
[Warning]: Redefining module INF-LIST
 -- defining module! NAT-INF-LIST
[Warning]: Redefining module NAT-INF-LIST
-- defining module! ERATOSTHENES-SIEVE
[Warning]: Redefining module ERATOSTHENES-SIEVE
-- defining module! HAMMING
[Warning]: Redefining module HAMMING
-- defining module! LOC
[Warning]: Redefining module LOC
 -- defining module! STATE
[Warning]: Redefining module STATE
 - defining module! TID
```

```
[Warning]: Redefining module TID
-- defining module! FMUTEX
[Warning]: Redefining module FMUTEX
-- defining module! COMP
[Warning]: Redefining module COMP
-- opening module NAT
-- reduce in %NAT : (4 rem 3):Nat
(1):NzNat
(0.0000 sec for parse, 0.0000 sec for 1 rewrites + 1 matches)
-- defining module! SCHED
[Warning]: Redefining module SCHED
-- defining module! SIM
[Warning]: Redefining module SIM
-- opening module SIM
```

レポート6

```
-- opening module SIM
-- reduce in %SIM: (sim-check((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs),123,10)):FComp
((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: cs) | ((locked: true, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc1: rs, pc2: rs, pc3: rs, pc4: rs) | ((locked: false, pc4: rs) | (locked: false, pc4: rs) | ((locked: false, pc4: rs) | (
```

レポート6