レポート５

```
CafeOBJ> in subject5/ex1.cafe

processing input : C:/Users/rmjap/Downloads/cafeobj-1.6.2-sbcl-win64/dist/cafeobj-1.6-sbcl/./subject5/ex1.cafe

-- defining module! PAIR
[Warning]: Redefining module PAIR
-- defining module! TRIPLE
[Warning]: Redefining module TRIPLE
-- defining module* TRIV-ERR-IF
[Warning]: Redefining module TRIV-ERR-IF
-- defining module! BOOL-ERR
[Warning]: Redefining module BOOL-ERR
-- defining module* TRIV-ERR
[Warning]: Redefining module TRIV-ERR
-- defining module! ENTRY
[Warning]: Redefining module ENTRY
-- defining module! GLIST-ERR
[Warning]: Redefining module GLIST-ERR
-- defining module! TABLE
[Warning]: Redefining module TABLE
-- defining module! STRING-ERR
[Warning]: Redefining module STRING-ERR
-- defining module! NAT-ERR
[Warning]: Redefining module NAT-ERR
-- defining view TRIV2QID
[Warning]: redefining view TRIV2QID
-- defining view TRIV-ERR-IF2STRING-ERR
[Warning]: redefining view TRIV-ERR-IF2STRING-ERR
-- opening module TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (t):Table
(('java , "Java") | (('obj , "OBJ3") | (('c , "C") | empTable))):NeTable
(0.0000 sec for parse, 0.0000 sec for 13 rewrites + 19 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (isReg(t,'obj)):Bool
(true):Bool
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    reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (isReg(t,'obj)):Bool
(true):Bool
(0.0000 sec for parse, 0.0000 sec for 19 rewrites + 28 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (isReg(t,'mk)):Bool
(false):Bool
(0.0000 sec for parse, 0.0000 sec for 23 rewrites + 35 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (lookup(t,'obj)):String&Err
("OBJ3"):String
(0.0000 sec for parse, 0.0000 sec for 23 rewrites + 34 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (lookup(t,'mk)):String&Err
(errStr):ErrString
(0.0000 sec for parse, 0.0000 sec for 23 rewrites + 35 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (update(t,'mk,"SML#")):Table
(('java , "Java") | (('obj , "OBJ3") | (('c , "C") | (('mk , "SML#") | empTable)))):NeTable
(0.0000 sec for parse, 0.0000 sec for 23 rewrites + 35 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (update(t,'obj,"CafeOBJ")):Table
(('java , "Java") | (('obj , "CafeOBJ") | (('c , "C") | empTable))):NeTable
(0.0000 sec for parse, 0.0000 sec for 19 rewrites + 28 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (insert(t,'mk,"SML#")):Table&Err
(('mk , "SML#") | (('java , "Java") | (('obj , "OBJ3") | (('c , "C") | empTable)))):NeTable
(0.0000 sec for parse, 0.0000 sec for 25 rewrites + 38 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (insert(t,'obj,"CafeOBJ")):Table&Err
(errTable):ErrTable
(0.0000 sec for parse, 0.0000 sec for 21 rewrites + 30 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (remove(t,'mk)):Table
(('java , "Java") | (('obj , "OBJ3") | (('c , "C") | empTable))):NeTable
(0.0000 sec for parse, 0.0000 sec for 23 rewrites + 35 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (remove(t,'obj)):Table
(('java , "Java") | (('c , "C") | empTable)):NeTable
(0.0000 sec for parse, 0.0000 sec for 19 rewrites + 28 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (delete(t,'mk)):Table&Err
(errTable):ErrTable
(0.0000 sec for parse, 0.0000 sec for 25 rewrites + 38 matches)
-- reduce in %TABLE(K <= TRIV2QID, V <= TRIV-ERR-IF2STRING-ERR) : (delete(t,'obj)):Table&Err
(('java , "Java") | (('c , "C") | empTable)):NeTable
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(('java , "Java") | (('c , "C") | empTable)):NeTable
(0.0000 sec for parse, 0.0000 sec for 27 rewrites + 39 matches)
-- defining module! TAG
[Warning]: Redefining module TAG
-- defining view TRIV-ERR-IF2TAG
[Warning]: redefining view TRIV-ERR-IF2TAG
-- defining module! CATALOG
[Warning]: Redefining module CATALOG
-- defining module! CART-ITEM
[Warning]: Redefining module CART-ITEM
-- defining view TRIV-ERR2CART-ITEM
[Warning]: redefining view TRIV-ERR2CART-ITEM
-- defining module! CART
[Warning]: Redefining module CART
-- defining module! BILL-ITEM
[Warning]: Redefining module BILL-ITEM
-- defining view TRIV-ERR2BILL-ITEM
[Warning]: redefining view TRIV-ERR2BILL-ITEM
-- defining module! BILIST
[Warning]: Redefining module BILIST
-- defining module! BILL
[Warning]: Redefining module BILL
-- opening module TAG
-- reduce in %TAG : ("takoyaki" , 100):Tag
("takoyaki" , 100):Tag
(0.0000 sec for parse, 0.0000 sec for 0 rewrites + 0 matches)
-- opening module CATALOG
-- reduce in %CATALOG : (cat):Catalog
(('a , ("apple" , 150)) | (('o , ("orange" , 100)) | (('t , ("tomato" , 90)) | empCatalog))):NeCatalog
(0.0000 sec for parse, 0.0000 sec for 1 rewrites + 1 matches)
-- opening module CART
-- reduce in %CART : (norm(c)):Cart
(('o , 10) | (('t , 10) | empCart)):NeCart
(0.0000 sec for parse, 0.0000 sec for 14 rewrites + 20 matches)
-- reduce in %CART : (norm(d)):Cart
```

```
-- opening module CART
-- reduce in %CART : (norm(c)):Cart
(('o , 10) | (('t , 10) | empCart)):NeCart
(0.0000 sec for parse, 0.0000 sec for 14 rewrites + 20 matches)
-- reduce in %CART : (norm(d)):Cart
(('t , 39) | (('o , 10) | empCart)):NeCart
(0.0000 sec for parse, 0.0000 sec for 22 rewrites + 32 matches)
-- opening module BILL
-- reduce in %BILL : (mkBill(cat,c)):Bill&Err
((("orange" , 10 , 1000) | (("tomato" , 10 , 900) | nilBIL)) , 1900):Bill
(0.0000 sec for parse, 0.0000 sec for 49 rewrites + 76 matches)
-- opening module BILL
-- reduce in %BILL : (mkBill(cat,c1)):Bill&Err
((("tomato" , 20 , 1800) | (("orange" , 12 , 1200) | (("banana" , 10 , 1400) | (("potato" , 13 , 390) | (("apple" , 3 , 450) | nilBIL))))) , 5240):Bill
(0.0000 sec for parse, 0.0000 sec for 174 rewrites + 282 matches)
-- reduce in %BILL : (mkBill(cat,c2)):Bill&Err
(errBill):ErrBill
(0.0000 sec for parse, 0.0000 sec for 69 rewrites + 108 matches)

CafeOBJ>
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