

IMP

MODULE IMP-SYNTAX

```
SYNTAX  AExp ::= Int
          | String
          | Id
          | ++ Id
          | read ()
          | AExp / AExp [division( division(), strict( strict()))]
          | AExp + AExp [strict( strict())]
          | spawn Block
          | Id = AExp [strict( strict(2))]
          | (AExp) [bracket( bracket())]

SYNTAX  BExp ::= Bool
          | AExp ≤ AExp [seqstrict( seqstrict())]
          | ! BExp [strict( strict())]
          | BExp && BExp [strict( strict(1))]
          | (BExp) [bracket( bracket())]

SYNTAX  Block ::= {Stmts}

SYNTAX  Stmt ::= Block
          | AExp ; [strict( strict())]
          | if (BExp)Block else Block [strict( strict(1))]
          | while (BExp)Block
          | int Ids ;
          | print (AExps) ; [strict( strict())]
          | halt ;
          | join AExp ; [strict( strict())]

SYNTAX  Ids ::= List{Id, “,”} [strict( strict())]

SYNTAX  AExps ::= List{AExp, “,”} [strict( strict())]

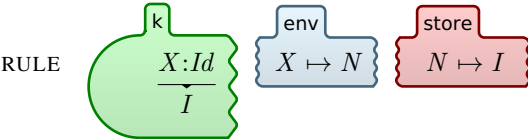
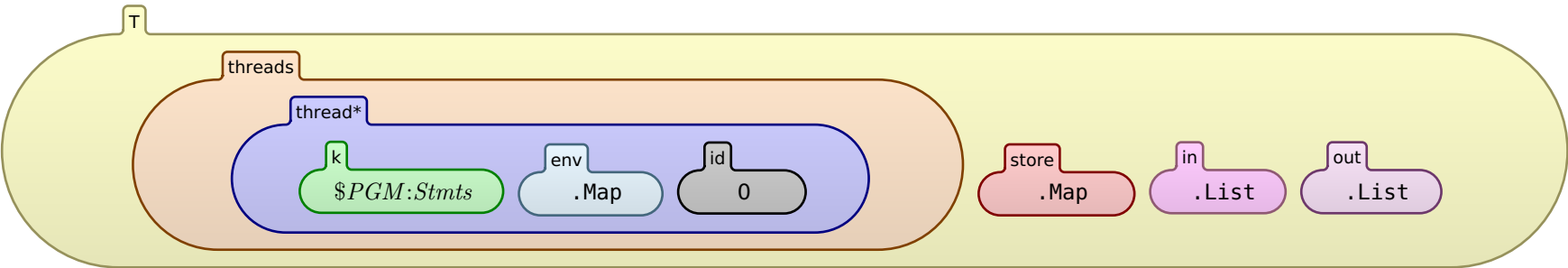
SYNTAX  Stmts ::= List{Stmt, “”}
```

END MODULE

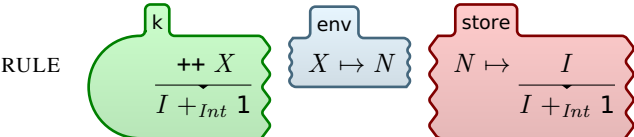
MODULE IMP

```
SYNTAX  KResult ::= Int
          | Bool
          | String
```

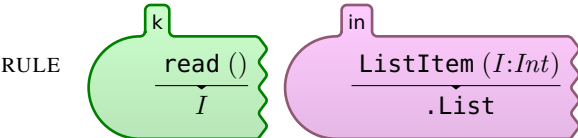
CONFIGURATION:



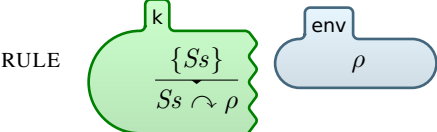
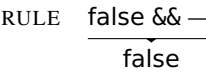
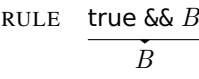
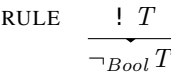
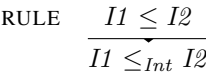
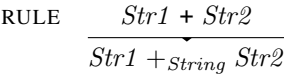
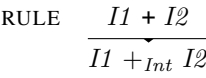
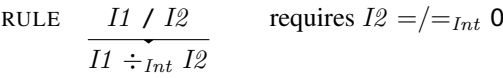
[lookup(lookup())]



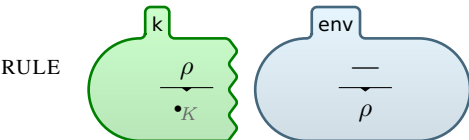
[increment(increment())]



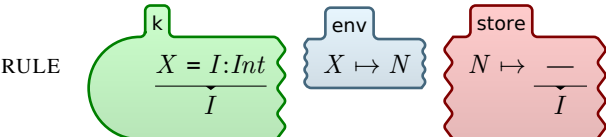
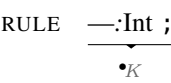
[read(read())]



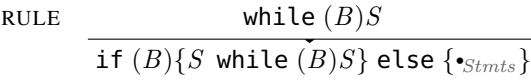
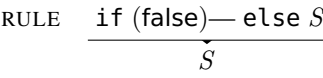
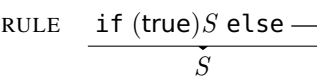
[structural(structural())]



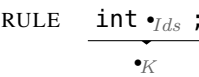
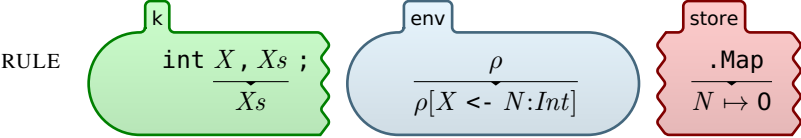
[structural(structural())]



[assignment(assignment())]



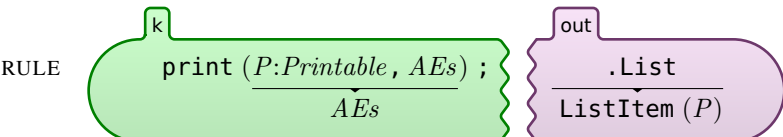
[structural(structural())]



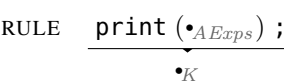
[structural(structural())]

SYNTAX AExp ::= Printable

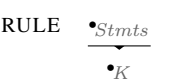
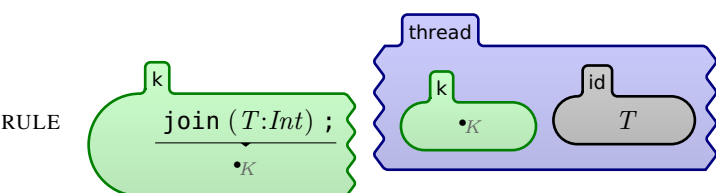
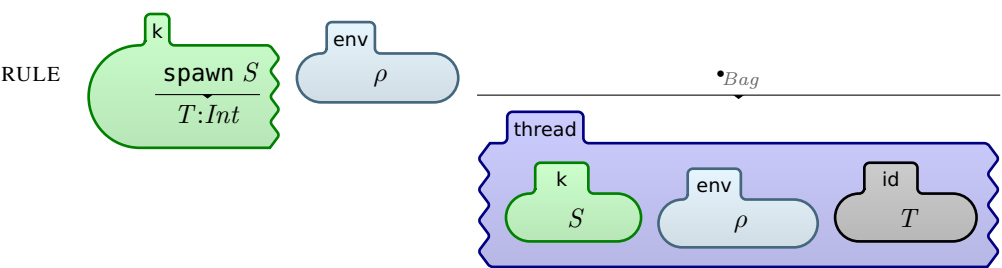
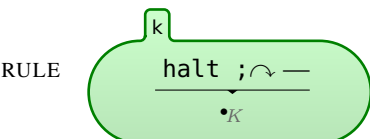
```
SYNTAX  Printable ::= Int
          | String
```



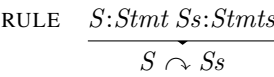
[print(print())]



[structural(structural())]



[structural(structural())]



[structural(structural())]

END MODULE