

IMP

MODULE IMP-SYNTAX

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

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

```
SYNTAX  Block ::= {Stmts}
```

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

```
SYNTAX  Ids ::= List{Id, ",", ""} [strict]
```

```
SYNTAX  AExps ::= List{AExp, ",", ""} [strict]
```

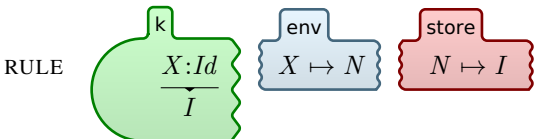
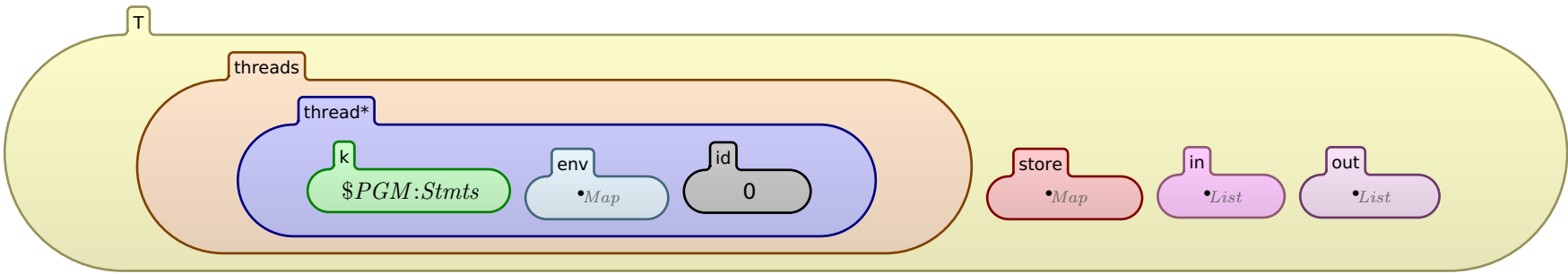
```
SYNTAX  Stmts ::= List{Stmt, ""}
```

END MODULE

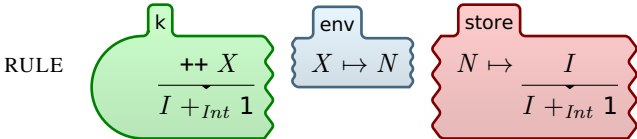
MODULE IMP

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

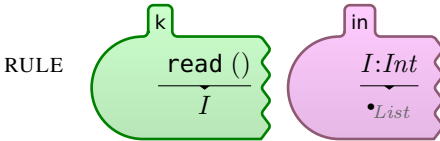
CONFIGURATION:



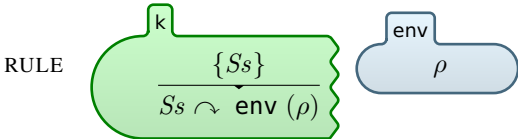
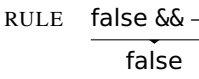
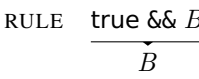
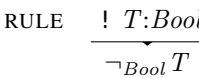
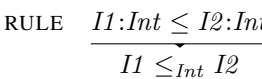
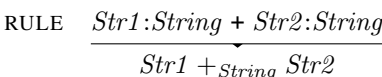
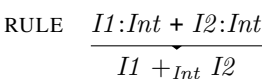
[lookup]



[increment]

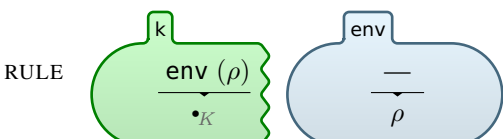


[read]

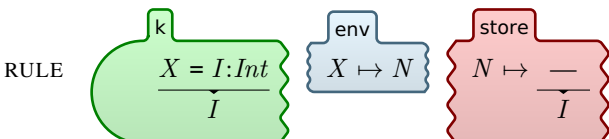
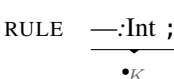


[structural]

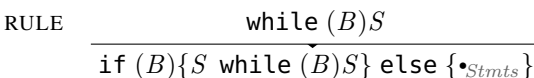
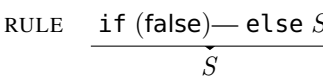
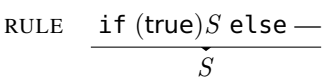
```
SYNTAX  K ::= env (Map)
```



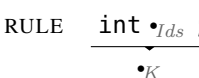
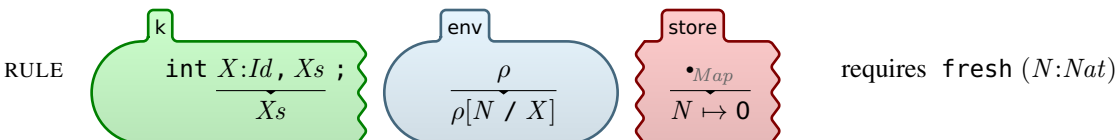
[structural]



[assignment]



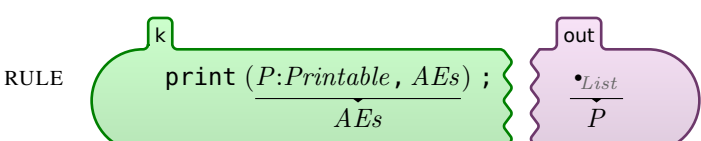
[structural]



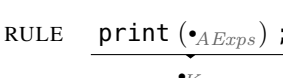
[structural]

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

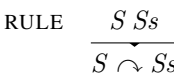
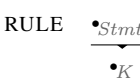
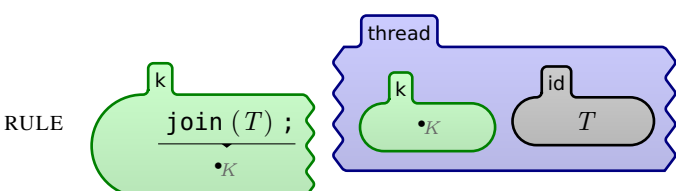
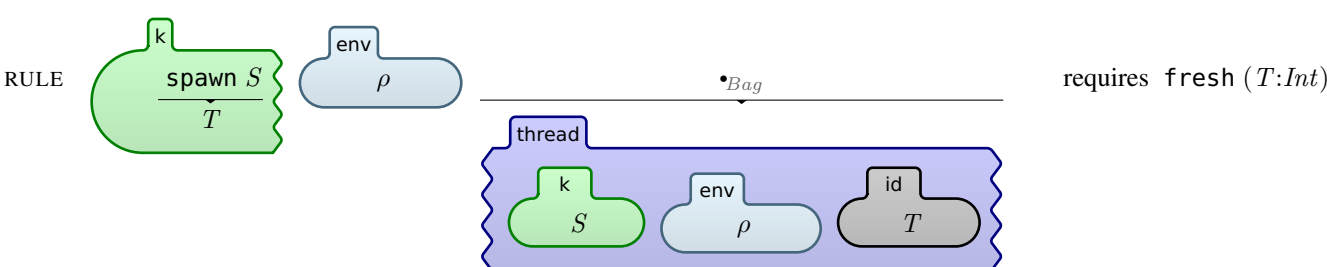
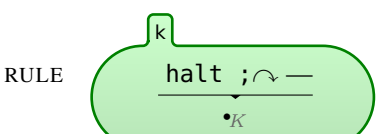
```
SYNTAX  AExp ::= Printable
```



[print]



[structural]



[structural]

END MODULE