## Exercise 4.4

## #

In continuation of Exercise 4.3, modify the parser specification to accept a language where functions may take any (non-zero) number of arguments. The resulting parser should permit function declarations such as these:

Solution:

The following changes were added to the parser FunPar.fsl

We have changed the AtExpr from

```
AtExpr:

Const { $1 }

NAME { Var $1 }

LET NAME EQ Expr IN Expr END { Let($2, $4, $6) }

LET NAME NAME EQ Expr IN Expr END { Letfun($2, $3, $5, $7) }

LPAR Expr RPAR { $2 }

;
```

to

```
AtExpr:

Const { $1 }

NAME { Var $1 }

LET NAME EQ Expr IN Expr END { Let($2, $4, $6) }

LET NAME NAMELIST EQ Expr IN Expr END { Letfun($2, $3, $5, $7) }

LPAR Expr RPAR { $2 }

;
```

And finally added the AppExprList as well: