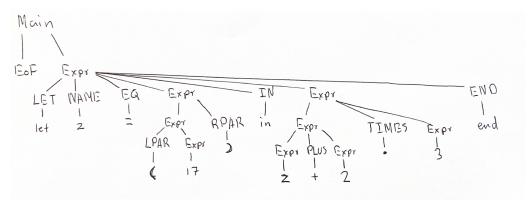
Programmer som Data - Assignment3

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3.3

```
let z = (17) in z + 2 * 3 end EoF
GOAL:
START: Main =>
        Expr EoF =>
01:
02:
        LET NAME EQ Expr IN Expr END EoF =>
03:
        LET NAME EQ Expr IN Expr end EoF =>
        LET NAME EQ Expr IN Expr TIMES Expr end EoF =>
04:
05:
        LET NAME EQ Expr IN Expr TIMES 3 end EoF =>
        LET NAME EQ Expr IN Expr * 3 end EoF =>
07:
        LET NAME EQ Expr IN Expr PLUS Expr * 3 end EoF =>
        LET NAME EQ Expr IN Expr PLUS 2 * 3 end EoF =>
:80
09:
        LET NAME EQ Expr IN Expr + 2 * 3 end EoF =>
10:
        LET NAME EQ Expr IN z + 2 * 3 end EoF =>
       LET NAME EQ Expr in z + 2 * 3 end EoF =>
11:
       LET NAME EQ Expr RPAR in z + 2 * 3 end EoF =>
12:
       LET NAME EQ Expr ) in z + 2 * 3 end EoF =>
       LET NAME EQ LPAR Expr ) in z + 2 * 3 end EoF =>
       LET NAME EQ LPAR 17) in z + 2 * 3 end EoF =>
       LET NAME EQ (17) in z + 2 * 3 end EoF =>
17:
        LET NAME = (17) in z + 2 * 3 end EoF =>
18:
       LET z = (17) in z + 2 * 3 end EoF =>
        let z = (17) in z + 2 * 3 end EoF
END:
```

3.4



NOTE: The EoF should be on the right side in order to give the correct outcome.

3.5

```
*** Inharp-fibarp-fisher/a-fisher/acc.Runtime.dll —fibarpi—mono.jbbray/fisher/acc.Runtime.dll —fibarpi—mono.jbbray/fisher/acc.Runtime.dll —fibarpi—mono.jbbray/fisher/acc.Runtime.dll —fibarpi—mono.jbbray/fisher/acc.Runtime.dll —fibarpi—fisher/acc.Runtime.dll —fibarpi—fisher/acc.Runtime.
```

```
pen Exercise_3._6_3._7.skillissue;;
compString
|-;;
|val it : (string → Expr.sinstr list) = <fun:it@9>
| compString | compString
```

Refer to the file ex36.fs in the folder Exercise_3.6-3.7.

3.7

```
[> fromString "3 ? 2 : 5"
[- ;;
val it : Absyn.expr = If (CstI 3, CstI 2, CstI 5)
```

Refer to the files Absyn.fs, ExprLex.fsl and ExprPar.fsy in the folder Exercise_3.6-3.7.