#### 1 Introduction

## 2 Teamwork planning

#### 3 Syntax in EBNF language

```
'DEVICES', {DEV, ','}, DEV, ';', 'CONNECT', {CON, ','}, CON, ';',
         'MONITOR', \{MON, \cdot, \cdot\}, MON, \cdot; \cdot
         'CLOCK', DEV.NAME, digit, {digit}
DEV =
         'SWITCH', DEV_NAME, (1 \mid 0)
         'AND' | 'NAND' | 'OR' | 'NOR', DEV_NAME, [1], digit
         'D_TYPE', DEV_NAME
         'XOR', DEV_NAME;
                 digit | letter, {digit | letter | '-'};
DEV NAME* =
                 O_PIN, '=>', I_PIN;
CON
O_PIN
                 DEV_NAME
          =
                 DEV.NAME, '.', 'Q' | 'QBAR';
                 DEV_NAME, '.', 'I', [1], digit
I_{-}PIN
                 DEV_NAME, '.', 'DATA' | 'CLK' | 'SET' | 'CLEAR';
MON
                 O_PIN | I_PIN;
*DEV_NAME = [0-9a-zA-Z_{-}]+, DEV_NAME can be any combination of letter and
number and '_', other than "DEVICES", "CONNECT", "MONITOR", "CLOCK",
"SWITCH", "AND", "NAND', "OR", "NOR", "D_TYPE", "XOR"
```

## 4 Syntax error identification and handling

## 5 Semantics error identification and handling

# 6 Example definition files

Circuit 1 definition file.

$$\begin{array}{rcl} C & \Longrightarrow D.\,I3\;;\\ \text{MONITOR}\,\,D; \end{array}$$

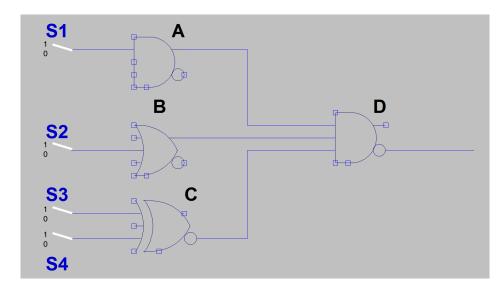


Figure 1: Circuit1

#### Circuit 2 definition file.

```
DEVICES CLOCK L 100, SWITCH S1 1, SWITCH S2 0, SWITCH S3 0, DTYPE M, NOR A 2; CONNECT S1 \Rightarrow M.SET, S2 \Rightarrow M.DATA, S3 \Rightarrow M.CLEAR, L \Rightarrow M.CLEAR, L \Rightarrow M.CLK, M.Q \Rightarrow A.I1, M.QBAR \Rightarrow A.I2; MONITOR A, QBAR;
```

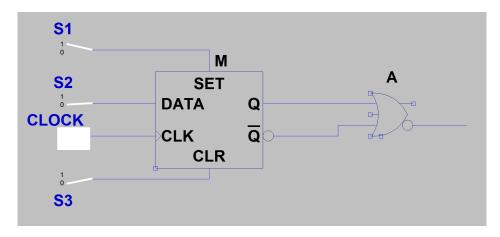


Figure 2: Circuit1