### CSEN1002 Compilers Lab, Spring Term 2021 Task 5: ANTLR Lexical Analysis

Due: Week starting 01.05.2021

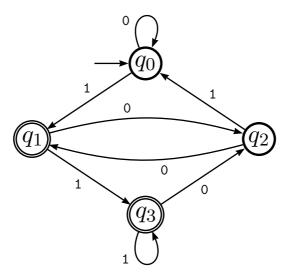
# 1 Objective

For this task you need to implement a simple lexical analyzer using ANTLR (www.antlr.org). Your tutor will introduce you to ANTLR during the session, but you are urged to prepare by taking a look at the ANTLR documentation:

github.com/antlr/antlr4/blob/master/doc/index.md

### 2 Requirements

• You will implement an ANTLR lexical analyzer for the following fallback DFA. (The fallback DFA is encoded as in the Task 4 description document.)



• For example, running the lexical analyzer implementing the above FDFA on the string 100101 produces the output 1100.

#### 3 Evaluation

- Your implementation will be tested on ten input strings.
- You get one point for each correct output; hence, a maximum of ten points.

# 4 Online Submission

• You should submit your code at the following link.

https://forms.gle/xsBwVVBpMk5HR7Jp6

- Please make sure that the java file that runs your parser and lexer is named "Main.java".
- Please export your entire IntelliJ IDEA project to a Zip file using the "File > Export to Zip File..." option.
- The filename should be of form <LabNo\_ID\_Name>; for example,

P13\_40\_1234\_John\_Smith.zip

• Online submission is due on Thursday, May 6th, by 23:59.