

Task1)

eivinlar@asti:~\$ gcc --version
gcc (GCC) 4.2.3 (Ubuntu 4.2.3-2ubuntu7)

eivinlar@asti:~\$ flex --version
flex 2.5.34

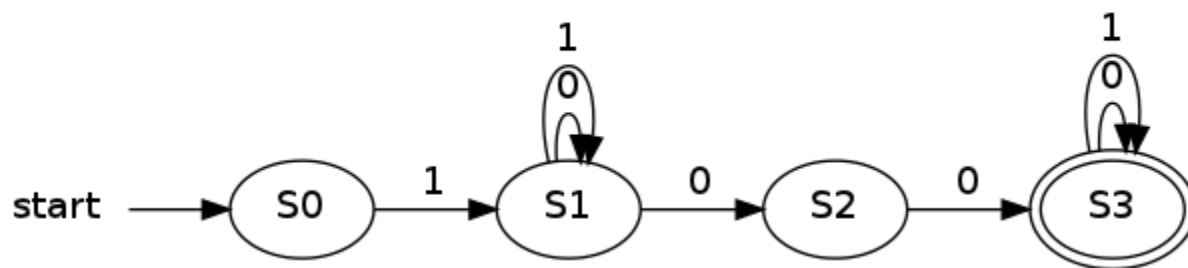
eivinlar@asti:~\$ bison --version
bison (GNU Bison) 2.3

Task2)

lexical analyzer produces a sequence of tokens from a sequence of characters.
An acceptor is a FSM that validates a sequence of characters or tokens by accepting it or not.

Task3)

a)



b)

The shortest word for this language is 100.

It accepts any word starting with 1, followed by any number of 1 and 0s, and then two consecutive 0s, with an optional tail of arbitrarily many 1s and/or 0s.

c)

State\Input	0	1
S0	-	S1
S1	S1,S2	S1
S2	S3	-
S3	S3	S3

Task4)

$\langle \text{integer} \rangle . \langle \text{integers} \rangle \langle e | E \rangle \{-\} \langle \text{integer} \rangle \{\epsilon | f | F | l | L\}$

