		ke the program
1.		et the zip file.
	a.	Nishimura. Yohei. P2/
		i. P2.java
		ii. b.jlex
		iii. Makefile
		iv. ErrMsg.java
		v. sym.java
		vi. *.in files ( to be used in tests. see Note section.)
		vii. deps/
		1. JLex/
		a. *.class files
		2. java_cup/
	h	a. (files)
2		Nishimura.Yohei.P2.pdf
۷.		te the following make
2		
ა.		ted outputs are below:
		javac -g -cp ./deps: . sym.java
		java -cp ./deps:. JLex.Main b.jlex
		Processing first section user code.
		Processing second section JLex declarations.  Processing third section lexical rules.
	f.	Creating NFA machine representation.
		NFA comprised of 373 states.
	•	Working on character
	11.	classes.::::::::::::::::::::::::::::::::::
	i.	NFA has 46 distinct character classes.
	i.	Creating DFA transition table.
	k.	Working on DFA
		states
	I.	Minimizing DFA transition table.
		99 states after removal of redundant states.
	n.	Outputting lexical analyzer code.
	Ο.	javac -g -cp ./deps:. ErrMsg.java

p. javac -g -cp ./deps:. b.jlex.javaq. javac -g -cp ./deps:. P2.java

a. java -cp ./deps:. P2

4. Execute the followinga. make test5. Expected outputs are below:

```
b. 1:1 ***WARNING*** integer literal too large; using max value
c. 1:1 ***ERROR*** unterminated String literal is ignored: "unterminated
d. 2:1 ***ERROR*** unterminated String literal is ignored: "also \"
e. 3:1 ***ERROR*** inproper char with bad escape is ignored: "backslash \
   3:1 ***ERROR*** unterminated String literal is ignored: "
   4:1 ***ERROR*** inproper char with bad escape is ignored: "bad escape \a
h. 4:1 ***ERROR*** unterminated String literal is ignored: "
   5:1 ***ERROR*** inproper char with bad escape is ignored: "bad escape \a
   6:1 ***ERROR*** unterminated String literal is ignored: "unterminated string (eof)
k. 1:1 ***ERROR*** inproper ident starting: 1_
   2:1 ***ERROR*** inproper ident starting: 1x
m. 3:1 ***ERROR*** inproper ident starting: 1x_
n. 4:1 ***ERROR*** inproper ident starting: 123x_
o. 1:1 ***ERROR*** ignoring illegal character: #
  1:2 ***ERROR*** ignoring illegal character: #
q. 1:1 ***ERROR*** inproper symbol; <==
   2:1 ***ERROR*** inproper symbol; >==
s. 3:1 ***ERROR*** inproper symbol; !==
   4:1 ***ERROR*** inproper symbol; <=====
u. 5:1 ***ERROR*** inproper symbol; !======
v. 6:1 ***ERROR*** inproper symbol; >====
w. 7:1 ***ERROR*** inproper symbol; +++++
x. 8:1 ***ERROR*** inproper symbol; -----
y. 9:1 ***ERROR*** inproper symbol; ***
z. 10:1 ***ERROR*** inproper symbol; //
aa. 11:1 ***ERROR*** inproper symbol; &&&&&
bb. 12:1 ***ERROR*** inproper symbol; |||||
cc. 13:1 ***ERROR*** inproper symbol; <<<<
dd. 14:1 ***ERROR*** inproper symbol; >>>>
ee. 1:1 ***ERROR*** ignoring illegal character: ~
ff. 2:1 ***ERROR*** ignoring illegal character: $
gg. 3:1 ***ERROR*** ignoring illegal character: %
hh. 4:1 ***ERROR*** ignoring illegal character: ^
ii. 5:1 ***ERROR*** ignoring illegal character: &
jj. 6:1 ***ERROR*** ignoring illegal character: |
kk. 7:1 ***ERROR*** ignoring illegal character: ~
II. 8:1 ***ERROR*** ignoring illegal character: $
mm. 9:1 ***ERROR*** ignoring illegal character: %
nn. 10:1 ***ERROR*** ignoring illegal character: ^
oo. 11:1 ***ERROR*** ignoring illegal character: &
pp. 12:1 ***ERROR*** ignoring illegal character: |
```

qq. diff validReserved.in validReserved.out

- rr. diff validIntegerLiteral.in validIntegerLiteral.out
- ss. diff validIdent.in validIdent.out
- tt. diff validStringLiteral.in validStringLiteral.out
- uu. diff validSymbol.in validSymbol.out
- vv. diff validComment expect.in validComment.out
- ww. diff validWhitespace\_expect.in validWhitespace.out
- xx. diff invalidIntegerLiteral expect.in invalidIntegerLiteral.out
- yy. diff invalidStringLiteral\_expect.in invalidStringLiteral.out
- zz. diff invalidIdent expect.in invalidIdent.out
- aaa. diff invalidComment\_expect.in invalidComment.out
- bbb. diff invalidSymbol expect.in invalidSymbol.out
- ccc. diff invalidReserved\_expect.in invalidReserved.out

## # Note

- 1. \*.in files are below. The file name represents the test.
  - a. validReserved.in, invalidReserved.in, invalidReserved expect.in,
  - b. validIdent.in, invalidIdent.in, invalidIdent\_expect.in,
  - c. validIntegerLiteral.in, invalidIntegerLiteral.in,invalidIntegerLiteral\_expect.in
  - d. validStringLiteral.in, invalidStringLiteral.in, invalidStringLiteral\_expect.in
  - e. validSymbol.in, invalidSymbol.in, invalidSymbol\_expect.in
  - f. validComment.in, validComment\_expect.in, invalidComment.in, invalidComment\_expect.in
  - g. validWhitespace.in, validWhitespace expect.in