Melissa Iori
Project Milestone 1

Σ = {[a-z], [0-9], <space>, +, *, -, ", (,), =}

Note: For each accepting state, there is also a <space> transition leading back to q0, so multiple statements can be accepted as one program.

All "else" transitions not shown go to q43, an error state

Start

*

q0

p

q8

v

q1

r

q9

[a-z] - {p,v}

q38

a

-

<space>

q26

<space>

q39

q2

i

r

<space>

q10

<space>

q27

q40

q3

n

=

<space>

{[a-z], <space>}

q11

q28

q41

q4

[a-z]

t

[a-z]

<space>

q12

<space>

q42

q5

[a-z], <space>

<space>

VariableDecl

q6

-

q13

(

q29

[0-9]

"

[a-z]

q7

*

<space>

q30

q33

q36

Comment

q15

q14

IntAssign

VarAssign

[0-9]

[a-z]

<space>

q16

"

q24

<space>

<space>

q19

<space>

q34

[a-z]

q17

<space>

q18

+

q20

<space>

q31

<space>

q35

[a-z], <space>

[a-z]

<space>

[a-z], <space>

q21

<space>

+

<space>

"

q32

"

q22

q37

StrAssign

<space>

q23

)

)

q25

Print