

1. ソースコードの変更点と実行結果

```
func (p *Parser) parseLetStatement() *ast.LetStatement {
    stmt := &ast.LetStatement{Token: p.curToken}

    if !p.expectPeek(token.IDENT) {
        return nil
    }

    stmt.Name = &ast.Identifier{Token: p.curToken, Value: p.curToken.Literal}

    if !p.expectPeek(token.COLON) {
        return nil
    }

    if !p.expectPeek(token.ASSIGN) {
        return nil
    }

    p.nextToken()

    stmt.Value = p.parseExpression(Lowest)

    if p.peekTokenIs(token.SEMICOLON) {
        p.nextToken()
    }

    return stmt
}
```

```
    tok = newToken(token.ASTERISK, l.ch)
case '<':
    tok = newToken(token.LT, l.ch)
case '>':
    tok = newToken(token.GT, l.ch)
case ';':
    tok = newToken(token.SEMICOLON, l.ch)
case ',':
    tok = newToken(token.COMMA, l.ch)
case ':':
    tok = newToken(token.COLON, l.ch)
case '{':
    tok = newToken(token.LBRACE, l.ch)
case '}':
    tok = newToken(token.RBRACE, l.ch)
case '(':
    tok = newToken(token.LPAREN, l.ch)
case ')':
    tok = newToken(token.RPAREN, l.ch)
case 0:
    tok.Literal = ""
    tok.Type = token.EOF
default:
    if isLetter(l.ch) {
        tok.Literal = l.readIdentifier()
```

```
ASTERISK = "*"
SLASH    = "/"

PLUSPLUS = "++"

LT = "<"
GT = ">"

EQ    = "=="
NOT_EQ = "!="

// Delimiters
COMMA    = ","
SEMICOLON = ";"

COLON = ":"

LPAREN = "("
RPAREN = ")"
LBRACE = "{"
RBRACE = "}"

// Keywords
FUNCTION    = "FUNCTION"
FUNCTION_ALT = "FUNCTION_ALT"
LET         = "LET"
TRUE        = "TRUE"
FALSE       = "FALSE"
IF          = "IF"
ELSE        = "ELSE"
RETURN      = "RETURN"

//kadai
ATMARK = "@"

HEY = "HEY"
```

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```
lexer.go
var tok token.Token

1. skipWhitespace()
switch l.ch {
case ' ':
    if l.peekChar() == ' ' {
        ch := l.ch
        l.readChar()
        literal := string(ch) + string(l.ch)
        tok = token.Token{Type: token.ASSIGN, Literal: literal}
    } else {
        tok = newToken(token.ILLEGAL, l.ch)
    }
case '\n':
    if l.peekChar() == '\n' {
        ch := l.ch
        l.readChar()
        literal := string(ch) + string(l.ch)
        tok = token.Token{Type: token.EQ, Literal: literal}
    } else {
        tok = newToken(token.ASSIGN, l.ch)
    }
/*case ':':
    tok = newToken(token.COLON, l.ch)*/
case '+':
    tok = newToken(token.PLUS, l.ch)
case '-':
    tok = newToken(token.MINUS, l.ch)
case '!':
    if l.peekChar() == '!' {
        ch := l.ch
        l.readChar()
        literal := string(ch) + string(l.ch)
        tok = token.Token{Type: token.NOT_EQ, Literal: literal}
    } else {
        tok = newToken(token.ASSIGN, l.ch)
    }
}
```

```
token.go
type TokenType string

const (
    ILLEGAL = "ILLEGAL"
    EOF     = "EOF"

    // Identifiers + literals
    IDENT = "IDENT" // add, foobar, x, y, ...
    INT   = "INT"   // 1343456

    // Operators
    ASSIGN = "=="
    PLUS  = "+"
    MINUS = "-"
    BANG  = "!"
    ASTERISK = "*"
    SLASH = "/"

    LT = "<"
    GT = ">"

    EQ  = "=="
    NOT_EQ = "!="

    // Delimiters
    COMMA = ","
    SEMICOLON = ";"

    /*COLON = ":"*/

    LPAREN = "("
    RPAREN = ")"
    LBRACE = "{"
    RBRACE = "}"

    // Keywords
)
```



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```
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23 switch l.ch {
24     /*case ':':
25         if !l.peekChar() == '=' {
26             ch := l.ch
27             l.readChar()
28             literal := string(ch) + string(l.ch)
29             tok = token.Token{Type: token.ASSIGN, Literal: literal}
30         } else {
31             tok = newToken(token.ILLEGAL, l.ch)
32         }
33     case '=':
34         if !l.peekChar() == '=' {
35             ch := l.ch
36             l.readChar()
37             literal := string(ch) + string(l.ch)
38             tok = token.Token{Type: token.EQ, Literal: literal}
39         } else if !l.peekChar() == '>' {
40             ch := l.ch
41             l.readChar()
42             literal := string(ch) + string(l.ch)
43             tok = token.Token{Type: token.ARROW, Literal: literal}
44         } else {
45             tok = newToken(token.ASSIGN, l.ch)
46         }
47     /*case ':':
48         tok = newToken(token.COLON, l.ch)
49     case '+':
50         tok = newToken(token.PLUS, l.ch)
51     case '-':
52         tok = newToken(token.MINUS, l.ch)
53     case '!':
54         if !l.peekChar() == '=' {
55             ch := l.ch
56             l.readChar()
57             literal := string(ch) + string(l.ch)
58             tok = token.Token{Type: token.NOT_EQ, Literal: literal}
59         }
60     default:
61         tok = newToken(token.ILLEGAL, l.ch)
62     }
63     tok.Literal = literal
64     return tok
65 }
```

```
home > sentoooooooo > TMU > 2 > 青龍処理系 > hozon > waig_code_14 > 02 > src > monkey > token > token.go
21 GT = ">"
22
23
24 EQ = "=="
25 NOT_EQ = "!="
26
27 // Delimiters
28 COMMA = ","
29 SEMICOLON = ";"
30
31 /*COLON = ":"*/
32
33 LPAREN = "("
34 RPAREN = ")"
35 LBRACE = "{"
36 RBRACE = "}"
37
38 ARROW = ">"
39
40 // Keywords
41 FUNCTION = "FUNCTION"
42 LET = "LET"
43 TRUE = "TRUE"
44 FALSE = "FALSE"
45 IF = "IF"
46 ELSE = "ELSE"
47 RETURN = "RETURN"
48
49 SET = "SET"
50 }
51
52 type Token struct {
53     Type TokenType
54     Literal string
55 }
56
```

[illegible]