Test Cases

Kai Wong

02/06/2018

1 Valid Test Cases

1.1 Simple 1

```
1  /* Simple test case */
2  {}$
```

1.2 Simple 2

```
1  /* Test case for print statement */
2  {
3      print("i love compilers")
4  }$
```

1.3 Regular

```
1   /* Test case for a 'regular' program*/
2   {
3       int a
4       a = 1
5       print(a)
6       boolean b
7       b = true
8       print(b)
9
10      {
11          int a
12          a = 2
13          print(a)
14      }
15
16      {
17          int a
18          a = 3
19          print(a)
20      }
21
22      string s
23      s = "stra"
24      print(s)
25
26      s = "strb"
27      print(s)
28
29      if (a != 5) {
30          print("true")
31      }
32
```

```
33        if (a == 5) {
34            print("false")
35        }
36 }$
```

1.4 Multiple

```
1  /* Test case for multiple programs */
2  {
3      print("i love compilers")
4      int a
5      a = 2
6      string s
7      s = "ha"
8  }$
9
10 {
11     int b
12     b = 4
13     string s
14     s = "hey"
15 }$
```

1.5 Crazy One Liner (Lex Pass)

```
1  /* Test case for crazy one liner */
2  +${hellotruefalsetrueprinta=3b=0print("false true")whi33leiftruefalsestring!=
       stringintbooleanaa truewhileif{hi+++==!==}}/*aaahaha*/hahahahaha/*awao*/$
```

2 Warning Test Cases

2.1 Missing EOP

```
1  /* Missing EOP */
2  {
3      int b
4      b = 4
5      string s
6      s = "hey"
7  }
```

3 Lex Fail Programs

3.1 Alan

```
1  /*  Provided By
2    - Compiler Tyrant
3    - Alan G Labouseur
4  */
5  {}$
6  {{{{{{}}}}}}$
7  {{{{{{}}}}}}$
8  {int  @}$
```

3.2 Invalid String 1

```
1  /* Test case for placing $ in quotes */
2  {
3      print("i love com$pilers")
4      int a
5      a = 2
6      string s
7      s = "ha"
8      "
9  }$
```

3.3 Invalid String 2

```
1  /* Test case for invalid characters in string */
2  {
3      string s
4      s = "cookies & cream"
5  }$
```

3.4 Invalid String 3

```
1  /* Test case for placing \n in quotes */
2  {
3      "hey
4      there"
5  }$
```

3.5 Invalid String 4

```
1  /* Test case for missing ending quote */
2  int a
3  a = 4
4  string s
5  s = "hey there
```

3.6 Invalid Print

```
1  /* Test case for invalid print */
2  {
3      print("my name is 11")
4  }$
```