

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 {
12     int b
13     b = 4
14     string s
15     s = "hey"
16 }$

```

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

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 Print

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