

```

public class ParserTester
{
    public static void main( String[] args) throws Exception
    {
        System.out.println("\nInstructor Test 1");
        RecDescentParser rdp = new RecDescentParser("x = ( 8 + ( a - b) * 5) $"
);
        rdp.start();

        System.out.println("\nInstructor Test 2");
        rdp = new RecDescentParser("x = 0; z = 106; y = v - 6 ; z = 19* ( z /2)
$" );
        rdp.start();

        System.out.println("\nInstructor Test 3");
        rdp = new RecDescentParser("c = ( (f + 5) * ( g - 7) ) * 2$" );
        rdp.start();

        System.out.println("\nInstructor Test 4");
        rdp = new RecDescentParser("z = ( ( 3 + a) ) ) + 8 $" );
        rdp.start();

        System.out.println("\nInstructor Test 5");
        rdp = new RecDescentParser("u = 23; z = a + -9$ ");
        rdp.start();

        System.out.println("\nInstructor Test 6");
        rdp = new RecDescentParser(" z = 8;$ ");
        rdp.start();

    }
}

/*
----jGRASP exec: java ParserTester

```

Instructor Test 1

```

Parsing:  x = ( 8 + ( a - b) * 5) $
getChar:  0  x
getChar:  2  =
getChar:  4  (
getChar:  6  8
getChar:  8  +
getChar: 10  (
getChar: 12  a
getChar: 14  -
getChar: 16  b
getChar: 17  )
getChar: 19  *
getChar: 21  5
getChar: 22  )
getChar: 24  $

```

Successful parse

Instructor Test 2

```
Parsing: x = 0; z = 106; y = v - 6 ; z = 19* ( z /2) $
getChar: 0  x
getChar: 2  =
getChar: 4  0
getChar: 5  ;
getChar: 7  z
getChar: 9  =
getChar: 11 1
getChar: 12 0
getChar: 13 6
getChar: 14 ;
getChar: 16 y
getChar: 18 =
getChar: 20 v
getChar: 22 -
getChar: 24 6
getChar: 26 ;
getChar: 28 z
getChar: 30 =
getChar: 32 1
getChar: 33 9
getChar: 34 *
getChar: 36 (
getChar: 38 z
getChar: 40 /
getChar: 41 2
getChar: 42 )
getChar: 44 $
Successful parse
```

Instructor Test 3

```
Parsing: c = ( (f + 5) * ( g - 7) ) * 2$
getChar: 0  c
getChar: 2  =
getChar: 4  (
getChar: 6  (
getChar: 7  f
getChar: 9  +
getChar: 11 5
getChar: 12 )
getChar: 14 *
getChar: 16 (
getChar: 18 g
getChar: 20 -
getChar: 22 7
getChar: 23 )
getChar: 25 )
getChar: 27 *
getChar: 29 2
getChar: 30 $
Successful parse
```

Instructor Test 4

Parsing: z = ((3 + a)) + 8 \$

getChar: 0 z

getChar: 2 =

getChar: 4 (

getChar: 6 (

getChar: 8 3

getChar: 10 +

getChar: 12 a

getChar: 13)

getChar: 15)

getChar: 17)

Syntax error at position : 18 with character:)

Unsuccessful parse

Instructor Test 5

Parsing: u = 23; z = a + -9\$

getChar: 0 u

getChar: 2 =

getChar: 4 2

getChar: 5 3

getChar: 6 ;

getChar: 8 z

getChar: 10 =

getChar: 12 a

getChar: 14 +

getChar: 16 -

Syntax error at position : 17 with character: -

Unsuccessful parse

Instructor Test 6

Parsing: z = 8;\$

getChar: 1 z

getChar: 3 =

getChar: 5 8

getChar: 6 ;

getChar: 7 \$

Syntax error at position : 8 with character: \$

Unsuccessful parse

----jGRASP: operation complete.

*/