

LongestValidParentheses.java

```

1  package com.example.dynamicProgramming;
2
3  public class LongestValidParentheses {
4
5      public int getLongestValidParentheses(String s) {
6  3      if (s == null || s.length() < 2) {
7          return 0;
8      }
9      char[] chars = s.toCharArray();
10     int n = chars.length;
11     int[] res = new int[n];
12     res[0] = 0;
13  2     res[1] = chars[1] == ')' && chars[0] == '(' ? 2 : 0;
14
15     int max = res[1];
16
17  2     for (int i = 2; i < n; ++i) {
18  1         if (chars[i] == ')') {
19  2             if (chars[i - 1] == '(') {
20  2                 res[i] = res[i - 2] + 2;
21             } else {
22  3                 int index = i - res[i - 1] - 1;
23  3                 if (index >= 0 && chars[index] == '(') {
24                     // ()()()
25  7                 res[i] = res[i - 1] + 2 + (index - 1 >= 0 ? res[index - 1] : 0);
26             }
27         }
28     }
29     max = Math.max(max, res[i]);
30 }
31
32  1     return max;
33 }
34 }

```

Mutations

```

6  1. negated conditional → KILLED
   2. negated conditional → KILLED
   3. changed conditional boundary → KILLED
13  1. negated conditional → KILLED
   2. negated conditional → KILLED
17  1. negated conditional → KILLED
   2. changed conditional boundary → KILLED
18  1. negated conditional → KILLED
19  1. negated conditional → KILLED
   2. Replaced integer subtraction with addition → KILLED
20  1. Replaced integer subtraction with addition → KILLED
   2. Replaced integer addition with subtraction → KILLED
22  1. Replaced integer subtraction with addition → KILLED
   2. Replaced integer subtraction with addition → KILLED
   3. Replaced integer subtraction with addition → KILLED
23  1. changed conditional boundary → KILLED
   2. negated conditional → KILLED
   3. negated conditional → KILLED
25  1. Replaced integer subtraction with addition → KILLED
   2. Replaced integer subtraction with addition → KILLED
   3. Replaced integer addition with subtraction → KILLED
   4. Replaced integer subtraction with addition → KILLED
   5. Replaced integer addition with subtraction → KILLED
   6. negated conditional → KILLED
   7. changed conditional boundary → SURVIVED
32  1. replaced int return with 0 for
   com/example/dynamicProgramming/LongestValidParentheses::getLongestValidParentheses →
   KILLED

```

Active mutators

- CONDITIONALS_BOUNDARY
- EMPTY_RETURNS
- FALSE_RETURNS
- INCREMENTS
- INVERT_NEGS
- MATH
- NEGATE_CONDITIONALS
- NULL_RETURNS
- PRIMITIVE_RETURNS
- TRUE_RETURNS
- VOID_METHOD_CALLS

Tests examined

- com.example.dynamicProgramming.LongestValidParenthesesTest.test(com.example.dynamicProgramming.LongestValidParenthesesTest)
(0 ms)

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