```
1⊕ import java.util.LinkedList;
 7 public class Infix_Postfix {
 8
9⊝
        public static void main(String[] args) {
10
            // TODO Auto-generated method stub
11
            Scanner sc = new Scanner(System.in);
12
            Stack st = new Stack();// FIL0
13
            String infix = sc.nextLine(); // รับสมการ
14
            String postfix = "";
15
            StringTokenizer token = new StringTokenizer(infix, " "); // แยกด้วย " "
16
            Queue<String> q = new LinkedList<>();// FIF0
17
18
            while (token.hasMoreTokens()) { // แยกจนกว่าจะหมด
19
                String temp = token.nextToken();
20
                String txt;
21
                if (temp.equals("(")) {
22
                    st.push(temp);
                } else if (temp.equals("+") || temp.equals("-")) {
23
24
                    if (st.empty() || st.peek().equals("("))
25
                        st.push(temp);
                    else {
26
                        q.add((String) st.pop());
27
28
                        st.push(temp);
29
30
                } else if (temp.equals("*") || temp.equals("/")) {
31
                    st.push(temp);
32
                } else if (temp.equals(")")) {
33
                    while (!st.peek().equals("(")) {
34
                        q.add((String) st.pop());
35
36
                    st.pop();
37
                } else
38
                    q.add(temp);
39
            } // while
40
            while (!st.empty()) {
41
                q.add((String) st.pop());
42
43
            System.out.println(q);
44
            System.out.println(computePost_Fix(q));
45
        }// main
46
```

```
46
47⊝
        static double computePost_Fix(Queue<String> q) {
48
            Stack st = new Stack();
49
            double x, y;
            while (q.size() != 0) {
50
51
                String token = q.poll();
52
                if (token.equals("+")) {
53
                    y = (double) st.pop();
54
                    x = (double) st.pop();
                    st.push(x + y);
55
56
                } else if (token.equals("-")) {
57
                    y = (double) st.pop();
58
                    x = (double) st.pop();
59
                    st.push(x - y);
                } else if (token.equals("*")) {
60
61
                    y = (double) st.pop();
62
                    x = (double) st.pop();
                    st.push(x * y);
63
64
                } else if (token.equals("/")) {
65
                    y = (double) st.pop();
66
                    x = (double) st.pop();
67
                    st.push(x / y);
68
                } else
                    st.push(Double.parseDouble(token));
69
70
            }
71
72
            return (double) st.pop();
        }
```