```
7 public class Infix_Postfix {
9⊝
       public static void main(String[] args) {
10
           Scanner sc = new Scanner(System.in);
11
           Stack st = new Stack();// FIL0
12
           String infix = sc.nextLine(); // รับสมการ
13
           String postfix = "";
14
           StringTokenizer token = new StringTokenizer(infix, " "); // แยกด้วย " "
15
           Queue<String> q = new LinkedList<>();// FIF0
16
17
           while (token.hasMoreTokens()) { // แยกจนกว่าจะหมด
18
               String temp = token.nextToken();
19
20
               if (temp.equals("+") || temp.equals("-")) {
21
                   while (!st.isEmpty() && !st.peek().equals("("))
22
                        q.add((String) st.pop());
23
                   st.push(temp);
24
25
               } else if (temp.equals("*") || temp.equals("/")) {
26
                   while (!st.isEmpty() && !st.peek().equals("("))
27
                        q.add((String) st.pop());
28
29
                   st.push(temp);
30
               } else if (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
44
           System.out.println(q);
45
           System.out.println(computePost_Fix(q));
46
       }// main
```

```
47
        static double computePost_Fix(Queue<String> q) {
48⊝
49
            Stack st = new Stack();
            double x, y;
50
51
            while (q.size() != 0) {
52
                String token = q.poll();
53
                if (token.equals("+")) {
54
                     y = (double) st.pop();
55
                     x = (double) st.pop();
                     st.push(x + y);
56
57
                } else if (token.equals("-")) {
58
                     y = (double) st.pop();
59
                     x = (double) st.pop();
60
                     st.push(x - y);
61
                } else if (token.equals("*")) {
62
                    y = (double) st.pop();
63
                     x = (double) st.pop();
64
                     st.push(x * y);
65
                } else if (token.equals("/")) {
                     y = (double) st.pop();
66
67
                     x = (double) st.pop();
68
                     st.push(x / y);
69
<sub>6</sub>7Θ
                     st.push(Double.parseDouble(token));
71
72
            return (double) st.pop();
73
        }
74 }
```