```
1 /*
2 * CSE212
3 * (c) BYU-Idaho
4 * 03-Teach - Problem 2
6 * It is a violation of BYU-Idaho Honor Code to post or share this code with others or
7 * to post it online. Storage into a personal and private repository (e.g. private
8 * GitHub repository, unshared Google Drive folder) is acceptable.
10 */
11
12 namespace teach_03;
14 public static class ComplicatedStack {
      public static bool DoSomethingComplicated(string line) {
15
          var stack = new Stack<char>();
16
17
          foreach (var item in line) {
18
              if (item is '(' or '[' or '{') {
19
                  stack.Push(item);
20
21
               else if (item is ')') {
22
                  if (stack.Count == 0 || stack.Pop() != '(')
23
                       return false;
24
25
               else if (item is ']') {
26
                  if (stack.Count == 0 || stack.Pop() != '[')
27
                       return false;
28
29
              else if (item is '}') {
30
                  if (stack.Count == 0 || stack.Pop() != '{')
31
                       return false;
32
              }
33
          }
34
35
          return stack.Count == 0;
36
      }
37 }
```