```
public class FullBalancedSymbolsChecker {
  public static boolean isBalanced(String str) {
      Stack<Character> stack = new Stack<>();
      for (char ch : str.toCharArray()) {
               if (stack.isEmpty() || stack.pop() != '(') return false;
               if (stack.isEmpty() || stack.pop() != '{') return false;
              if (stack.isEmpty() || stack.pop() != '[') return false;
              if (stack.isEmpty() || stack.pop() != '<') return false;</pre>
               if (!stack.isEmpty() && stack.peek() == ch) {
                   stack.pop(); // Closing quote
                  stack.push(ch); // Opening quote
      return stack.isEmpty();
  public static void main(String[] args) {
      System.out.println(isBalanced("{ [ ( ) ] }"));
      System.out.println(isBalanced("'<{[()]}'\">"));
      System.out.println(isBalanced("\"'([{}])'\""));
      System.out.println(isBalanced("{ [ ( ] ) }"));
      System.out.println(isBalanced("\" [ { ] }"));
      System.out.println(isBalanced("<< { ' ( [ ) } >>"));
```

```
C:\Users\Karthik\.jdks\openjdk-24.0.1\bin\java.e
true
false
false
true
false
true
false
false
false
```

```
public void visit(String url) {
    currentPage = url;
    displayCurrentPage();
    if (backwardStack.isEmpty()) {
    forwardStack.push (currentPage);
    currentPage = backwardStack.pop();
    displayCurrentPage();
    if (forwardStack.isEmpty()) {
    System.out.println("Going forward one page.");
    backwardStack.push(currentPage);
```

```
currentPage = forwardStack.pop();
    displayCurrentPage();
}

public void displayCurrentPage() {
    System.out.println("Current page: " + currentPage);
    } }

class BrowserDriver {
    public static void main(String[] args) {
        BrowserNavigator browser = new BrowserNavigator();

        browser.displayCurrentPage(); // Home
        browser.visit("https://example.com");
        browser.visit("https://openai.com");
        browser.visit("https://github.com");

        browser.backward(); // GitHub → OpenAI
        browser.backward(); // OpenAI → Example
        browser.visit("https://stackoverflow.com"); // clears forward stack

        browser.backward(); // StackOverflow → OpenAI
        browser.forward(); // Example → OpenAI
}
```

```
C:\Users\Karthik\.jdks\openjdk-24.0.1\bin\java.exe "-javaagent:C:\Program Fi
Current page: Home
Navigating to a new webpage: <a href="https://example.com">https://example.com</a>
Current page: <a href="https://example.com">https://example.com</a>
Navigating to a new webpage: <a href="https://openai.com">https://openai.com</a>
Current page: <a href="https://openai.com">https://openai.com</a>
Navigating to a new webpage: <a href="https://github.com">https://github.com</a>
Current page: <a href="https://github.com">https://github.com</a>
Going back one page.
Current page: <a href="https://openai.com">https://openai.com</a>
Going back one page.
Current page: https://example.com
Going forward one page.
Current page: <a href="https://openai.com">https://openai.com</a>
Navigating to a new webpage: <a href="https://stackoverflow.com">https://stackoverflow.com</a>
Current page: <a href="https://stackoverflow.com">https://stackoverflow.com</a>
Going back one page.
Current page: <a href="https://openai.com">https://openai.com</a>
```

Going back one page.