```
#include <iostream>
#include <stack>
#include <string>
using namespace std;
bool isOpening(char ch) {
  return ch == '(' || ch == '{' || ch == '[';
}
bool isClosing(char ch) {
  return ch == ')' || ch == '}' || ch == ']';
}
bool isMatchingPair(char opening, char closing) {
  return (opening == '(' && closing == ')') ||
       (opening == '{' && closing == '}') ||
       (opening == '[' && closing == ']');
}
bool isWellParenthesized(const string& expression) {
  stack<char> s;
  for (char ch : expression) {
     if (isOpening(ch)) {
        s.push(ch);
     } else if (isClosing(ch)) {
        if (s.empty() || !isMatchingPair(s.top(), ch)) {
          return false;
        }
        s.pop();
  }
  return s.empty();
}
int main() {
  string expression;
```

```
cout << "Enter an expression: ";
cin >> expression;

if (isWellParenthesized(expression)) {
    cout << "The expression is well-parenthesized." << endl;
} else {
    cout << "The expression is NOT well-parenthesized." << endl;
}

return 0;
}</pre>
```