```
Lab-4
bool isValid(char* s) {
  int len = strlen(s);
  std::vector<char> stack;
  for (int i = 0; i < len; i++) {
     if (s[i] == '(' || s[i] == '{' || s[i] == '[') {
       stack.push_back(s[i]);
     } else {
       if (stack.empty()) {
          return false;
       }
       char a = stack.back();
       stack.pop_back();
       if ((s[i] == ')' \&\& a == '(') || (s[i] == ']' \&\& a == '[') || (s[i] == ']' \&\& a == '[')) {
          continue;
       } else {
          return false;
       }
     }
  }
  return stack.empty();
}
int main() {
  char input[] = "{[()]}";
  if (isValid(input)) {
     std::cout << "The string is valid." << std::endl;</pre>
  } else {
     std::cout << "The string is not valid." << std::endl;
  }
```

return 0;

}

