Nama : Fahrial Ananta

NRP : 5223600030

#include <iostream>

#include <stack>

#include <string>

bool isPalindrome(const std::string& str) {

std::stack<char> stack;

int length = str.length();

int i, mid = length / 2;

for (i = 0; i < mid; i++) {

stack.push(str[i]);

}

for (i = mid + length % 2; i < length; i++) {

if (stack.top() != str[i]) {

return false;

}

stack.pop();

}

return true;

}

int main() {

std::string input = "malam";

bool result = isPalindrome(input);

if (result) {

std::cout << input << " is a palindrome." << std::endl;

} else {

std::cout << input << " is not a palindrome." << std::endl;

}

return 0;

}