

CSCI 104 Participation Quiz 1: January 17, 2019 - 10 min.

Name, ID:

```
#include <iostream>
#include <fstream>
#include <sstream>
using namespace std;

void count_palindromes(string input, int& count);
bool is_palindrome(string check);

int main()
{
    cout << "Please enter a file name:" << endl;
    cin >> file_name;
    if (cin.fail()){
        cout << "Invalid file name" << endl;
        return -1;
    }

    int palindrome_count = 0;
    count_palindromes(file_name, palindrome_count);
    cout << file_name << " contains " << palindrome_count << " palindromes." << endl;
}

/*Assume that the input file has a string on each line and a newline at the end of each line.
Complete this function to count the number of strings in the file that are palindromes. */

void count_palindromes(string input, int& count){
    ifstream ifile(input.c_str());
    if (ifile.fail()) {
        return;
    }

    ifile.close();
}

/* Write a recursive function to take a string and return true if and only if the string is a palindrome */

bool is_palindrome(string check)
{ // assume strings have an string::erase(position) member function
  // i.e. string s = "Bye"; s.erase(1); would make s = "Be"
}
```