How to count how many chars in an opened file are successfully read in C++?

[intro]

iss.gcount() can count how many chars in an opened file are successfully read in C++.

[namespace]

std

[class]

std::ifstream

[library]

<fstream>

[P.S.]

Before run the code, be sure that the file you want to open will be placed in same directory as the executable file (.exe).

If the file you want to open is NOT found in the directory in executable file locates or is missing, the file can NOT be opened and the variable with the type ifstream will be empty.

[code]

#include <iostream>

#include <fstream>

using namespace std;

int main ()

{

std::ifstream is ("test.txt", std::ifstream::binary);

if (is)

{

// get length of file:

is.seekg (0, is.end);

int length = is.tellg();

is.seekg (0, is.beg);

char \* buffer = new char [length];

cout << "Reading " << length << " characters... ";

// read data as a block:

is.read (buffer,length);

if (is)

{

cout << "all characters read successfully.";

}

else

{

cout << "error: only " << is.gcount() << " could be read";

}

cout<<endl;

is.close();

delete[] buffer;

}

else

{

cout<<"ERROR!!! There are unknown error while opening file."<<endl;

}

return 0;

}

[prepare]

Run the code in cpp.sh shell.

[result 1]

ERROR!!! There are unknown error while opening file.

[prepare]

Create a test.txt file in “location”.

Create a .cpp file in “location”.

Write the above code in the .cpp file.

Compile and run.

[result 2]

The possible result:

Reading 6 characters... all characters read successfully.

[ref]

<https://cplusplus.com/reference/istream/istream/read/>