#include <iostream>

using namespace std;

int main()

{

string users[] = {"User1",

"User2",

"User3",

"User4"};

string objects[] = {

"File 1",

"File 2",

"File 3",

"File 4",

};

int acc\_rights[4][4][2] = {

{{0, 1}, {0, 0}, {1, 0}, {1, 1}},

{{1, 1}, {1, 1}, {0, 0}, {0, 0}},

{{1, 0}, {1, 0}, {1, 0}, {1, 0}},

{{1, 1}, {1, 0}, {1, 0}, {1, 0}},

};

cout << "Enter the user you want to login with:" << endl;

int s = 1;

for (auto &&i : users)

{

cout << s << ". " << i << endl;

s++;

}

string curr\_user;

cin >> curr\_user;

int file = 0;

int user;

do

{

cout << "\nSelect the object number (0 to exit): " << endl;

s = 1;

for (auto &&i : objects)

{

cout << s << ". " << i << endl;

s++;

}

cin >> file;

if (!file){

break;

}

user = ((int)(curr\_user.back())) - 48;

if (acc\_rights[user - 1][file - 1][0] == 1)

{

if (acc\_rights[user - 1][file - 1][1] == 1)

{

cout << "The file is successfully opened with both read and write access." << endl;

}

else

{

cout << "The file is successfully opened with read access." << endl;

}

}

else if (acc\_rights[user - 1][file - 1][0] == 0)

{

cout << "This user has no access to the file." << endl;

}

} while (file);

return 0;

}