2)

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp21

{

class Program

{

static void Main(string[] args)

{

string oldAccess = Console.ReadLine();

string newAccess = Console.ReadLine();

string res = Result(oldAccess, newAccess);

Console.WriteLine(res);

Console.ReadLine();

}

static string Result(string oldS, string newS) {

string res = null;

string userOld = oldS.Substring(0, 3);

string groupOld = oldS.Substring(3, 3);

string otherOld = oldS.Substring(6, 3);

string userNew = newS.Substring(0, 3);

string groupNew = newS.Substring(3, 3);

string otherNew = newS.Substring(6, 3);

string userRes = null;

string groupRes = null;

string otherRes = null;

if (userOld != userNew)

{

for (int i = 0; i < userOld.Length; i++)

{

if (userOld[i] != userNew[i])

{

if (userOld[i] == '-')

{

userRes = "+" + userNew[i];

}

else

{

userRes = "-" + userOld[i];

}

}

}

}

if (groupOld != groupNew)

{

for (int i = 0; i < groupOld.Length; i++)

{

if (groupOld[i] != groupNew[i])

{

if (groupOld[i] == '-')

{

groupRes = "+" + groupNew[i];

}

else

{

groupRes = "-" + groupOld[i];

}

}

}

}

if (otherOld != otherNew)

{

for (int i = 0; i < otherOld.Length; i++)

{

if (otherOld[i] != otherNew[i])

{

if (otherOld[i] == '-')

{

otherRes = "+" + otherNew[i];

}

else

{

otherRes = "-" + otherOld[i];

}

}

}

}

if (userRes == null)

{

if (groupRes == null)

{

res = "chmod " + "o" + otherRes;

}

else if (otherRes == null)

{

res = "chmod " + "g" + groupRes;

}

else if (groupRes == otherRes)

{

res = "chmod " + "go" + groupRes;

}

else

{

res = "impossible";

}

}

else if (groupRes == null)

{

if (userRes == null)

{

res = "chmod " + "o" + otherRes;

}

else if (otherRes == null)

{

res = "chmod " + "u" + userRes;

}

else if (userRes == otherRes)

{

res = "chmod " + "uo" + userRes;

}

else

{

res = "impossible";

}

}

else if (otherRes == null)

{

if (userRes == null)

{

res = "chmod " + "g" + groupRes;

}

else if (groupRes == null)

{

res = "chmod " + "u" + userRes;

}

else if (userRes == groupRes)

{

res = "chmod " + "ug" + userRes;

}

else

{

res = "impossible";

}

}

else if ((userRes == groupRes) && (groupRes == otherRes))

{

res = "chmod " + "a" + userRes;

}

else

{

res = "impossible";

}

return res;

}

}

}

3) using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp21

{

class Program

{

static List<string> files = new List<string>();

static string key;

static string path;

static void Main(string[] args)

{

string inputStr = null;

do

{

inputStr = Console.ReadLine();

files.Add(inputStr);

} while (inputStr.Substring(0, 2) != "ls");

key = files[files.Count - 1];

files.RemoveAt(files.Count - 1);

path = files[files.Count - 1];

files.RemoveAt(files.Count - 1);

if (key == "ls")

AllOut();

else if (key[4] == 'R')

RecursiveOut();

else

HiddenOut();

Console.ReadLine();

}

static void RecursiveOut()

{

int count = 0;

string catalog = path.Remove(0, 3);

for (int i = 0; i < files.Count; i++)

{

if (files[i].IndexOf(catalog) >= 0)

{

string[] elems = files[i].Split('/');

if (elems[elems.Length - 1][0] != '.')

{

count++;

Console.WriteLine(elems[elems.Length - 1]);

}

}

}

if (count == 0)

{

Console.WriteLine("NO FILES.");

}

}

static void HiddenOut()

{

int count = 0;

string catalog = path.Remove(0, 3);

for (int i = 0; i < files.Count; i++)

{

if (files[i].IndexOf(catalog) >= 0)

{

string[] elems = files[i].Split(new string[] { catalog }, StringSplitOptions.RemoveEmptyEntries);

string[] file = elems[0].Split('/');

if (file.Length == 2)

{

count++;

Console.WriteLine(file[1]);

}

}

}

if (count == 0)

{

Console.WriteLine("NO FILES.");

}

}

static void AllOut()

{

int count = 0;

string catalog = path.Remove(0, 3);

for (int i = 0; i < files.Count; i++)

{

if (files[i].IndexOf(catalog) >= 0)

{

string[] elems = files[i].Split(new string[] { catalog }, StringSplitOptions.RemoveEmptyEntries);

string[] file = elems[0].Split('/');

if (file.Length == 2 && file[1][0] != '.')

{

count++;

Console.WriteLine(file[1]);

}

}

}

if (count == 0)

{

Console.WriteLine("NO FILES.");

}

}

}

}