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There are N lights in a line. Given the states (on/off) of the lights, your task is to determine at least how many lights should be switched (from on to off, or from off to on), in order to make the lights on and off alternatively.

* **[time limit] 3000ms (cs)**
* **[input] string l**

An string solely of '0' (meaning off) and '1' (meaning on).

* **[output] integer**

Minimum number of switches

<https://codefights.com/challenge/FS4MtCvZKaTzz6dyY/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int lightSwitch(string l)

{

string c1 = "";

bool band = true;

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

{

if (band)

{

c1 += "1";

}

else

{

c1 += "0";

}

band = !band;

}

string c2 = "";

band = true;

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

{

if (band)

{

c2 += "0";

}

else

{

c2 += "1";

}

band = !band;

}

//Console.WriteLine(c1);

//Console.WriteLine(c2);

int cont1 = 0;

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

{

if (l[i] != c1[i])

{

cont1++;

}

}

int cont2 = 0;

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

{

if (l[i] != c2[i])

{

cont2++;

}

}

return Math.Min(cont1, cont2);

}

static void Main()

{

string s = "1100101011";

// string s = "1001001";

// //string str = "10000000";

Console.WriteLine(lightSwitch(s));

Console.ReadLine();

}

}

}