N lamps are placed in a line, some are switched on and some are off. What is the smallest number of lamps that need to be switched so that on and off lamps will alternate with each other?

For example, if 1 is an on lamp and 0 is an off lamp, [1, 0, 0, 1, 1, 1, 0] can become [0, 1, 0, 1, 0, 1, 0] after 3 switches.

* **[time limit] 3000ms (cs)**
* **[input] array.integer a**

array of zeros and ones - initial lamp setup, 1 mean switched-on lamp and 0 means switched-off, length of a is less than 1000

* **[output] integer**

minimum number of switches

<https://codefights.com/challenge/RYNbbxW2A4LtTkFAi/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int lamps(int[] a)

{

string c1 = "";

bool band = true;

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

{

if (band)

{

c1 += "1";

}

else

{

c1 += "0";

}

band = !band;

}

string c2 = "";

band = true;

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

{

if (a[i] !=int.Parse( c1[i].ToString()))

{

cont1++;

}

}

int cont2 = 0;

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

{

if (a[i] != int.Parse( c2[i].ToString()))

{

cont2++;

}

}

return Math.Min(cont1, cont2);

}

static void Main(string[] args)

{

}

}

}