using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Text.RegularExpressions;

using System.Threading.Tasks;

namespace Codility\_Day2

{

class BinaryGap

{

static void Main()

{

int result = solution(1041);

Console.WriteLine(result);

}

private static int solution(int v)

{

var binary = Convert.ToString(v, 2);

Console.WriteLine(binary);

var regex = new Regex("(?<=1)(0+)(?=1)");

int result = regex.Matches(binary)

.Cast<Match>()

.Select(x => x.Length)

.DefaultIfEmpty(0)

.Max();

return result;

}

}

}