using static System.Runtime.InteropServices.JavaScript.JSType;

namespace Validcard

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the card number : ");

string creditCardNumber = Console.ReadLine();

char[] charArray = creditCardNumber.ToCharArray();

Array.Reverse(charArray);

string reversedNumber = new string(charArray);

int sum = Sumofreverseddigits(reversedNumber);

ValidityCheckofSum(sum);

}

static int Sumofreverseddigits(string reversedNumber)

{

int sum = 0;

bool doubleDigit = false;

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

{

int digit = int.Parse(reversedNumber[i].ToString());

if (doubleDigit)

{

digit \*= 2;

if (digit > 9)

{

digit = (digit % 10) + 1;

}

}

sum += digit;

doubleDigit = !doubleDigit;

}

return sum;

}

static void ValidityCheckofSum(int sum)

{

Console.WriteLine(sum+" ");

bool isValid = sum % 10 == 0;

if (isValid)

{

Console.WriteLine("The credit card number is valid.");

}

else

{

Console.WriteLine("The credit card number is invalid.");

}

}

}

}

