Little Drug Tito found an integer.He can switch places of its digits.Help him make a greatest integer divisible by 30 that way.If it is imposible return -1. For expale from 1011 we can get 1110.

* **[time limit] 3000ms (cs)**
* **[input] integer n**

given integer

* **[output] integer**

<https://codefights.com/challenge/W6T3GMzsmYcy3FrBL/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static bool nextPermutation(char[] array)

{

// Find non-increasing suffix

int i = array.Length - 1;

while (i > 0 && array[i - 1] >= array[i])

i--;

if (i <= 0)

return false;

// Find successor to pivot

int j = array.Length - 1;

while (array[j] <= array[i - 1])

j--;

char temp = array[i - 1];

array[i - 1] = array[j];

array[j] = temp;

// Reverse suffix

j = array.Length - 1;

while (i < j)

{

temp = array[i];

array[i] = array[j];

array[j] = temp;

i++;

j--;

}

return true;

}

static int avnoj(int n)

{

char[] num = n.ToString().ToCharArray();

Array.Sort(num);

int max = -1;

while (nextPermutation(num))

{

//Console.WriteLine(new string(num));

if (int.Parse(new string(num)) % 30 == 0)

{

max = Math.Max(max, int.Parse(new string(num)));

}

}

return max;

}

static void Main(string[] args)

{

Console.WriteLine(avnoj(1011));

Console.ReadLine();

}

}

}