Author

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https://codefights.com/img/coins_new.png2000

Let's define a *parameter* of number n as the [least common multiple](https://en.wikipedia.org/wiki/Least_common_multiple) (LCM) of the sum of its digits and their product.

Calculate the *parameter* of the given number n.

**Example:**

* parameter(1) = 1
* parameter(22) = 4  
  Both the sum and the product of digits equal 4, and LCM(4, 4) = 4.
* **[input] integer n**
  + A positive integer.
* **[output] integer**
  + The *parameter* of the given number. It is guaranteed that the answer fits in a 32-bit integer.

<https://codefights.com/challenge/ba89S3ttBLrHXL2qE>

static long gcd(long a, long b)

{

if (a == 0) return b;

return gcd(b % a, a);

}

static long lcm(long a, long b)

{

return Math.Abs(a \* b) / gcd(a, b);

}

static long parameter(int n)

{

string ns = n.ToString();

long sum = 0, prod = 1;

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

{

sum += long.Parse(ns[i].ToString());

prod \*= long.Parse(ns[i].ToString());

}

return lcm(sum, prod);

}

static void Main(string[] args)

{

Console.WriteLine(parameter(999999999));

Console.ReadLine();

}