**6 kyu**

**Find the First Number in Having a Certain Number of Divisors I**

41388% of 4448 of219[raulbc777](https://www.codewars.com/users/raulbc777)

C#

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The number 12 is the first number in having six divisors, they are: 1, 2, 3, 4, 6 and 12. Your challenge for this kata is to find the minimum number that has a certain number of divisors. For this purpose we have to create the function

find\_min\_num() or findMinNum() or similar in the other languages

that receives the wanted number of divisors num\_div, and outputs the smallest number having an amount of divisors equals to num\_div.

Let's see some cases:

find\_min\_num(10) = 48 # divisors are: 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48

find\_min\_num(12) = 60

In this kata all the tests will be with numDiv < 80

(There will be a next kata with numDiv < 10000, Find the First Number Having a Certain Number of Divisors II, should have the help of number theory)

Enjoy it and happy coding! (Memoization is advisable)

<https://www.codewars.com/kata/find-the-first-number-in-having-a-certain-number-of-divisors-i/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp2

{

class Program

{

static int cantDivisores(int n)

{

int sqr = (int)Math.Sqrt(n);

int cont = 0;

for(int i =1; i<=sqr; i++) if (n % i == 0) cont++;

cont = cont \* 2;

if (sqr \* sqr == n) cont = cont - 1;

return cont;

}

public static int FindMinNum(int num)

{

// your code

for(int i = 1; ; i++)

{

if (cantDivisores(i) == num) return i;

}

}

static void Main(string[] args)

{

//Console.WriteLine(cantDivisores(20));

//Console.WriteLine(cantDivisores(36));

Console.WriteLine(FindMinNum(10));

Console.ReadLine();

}

}

}