You are given positive integer N. Output number of primes p less or equal than N such that number obtained from p by reversing digits in decimal notation is also prime, but isn't equal to p(see http://en.wikipedia.org/wiki/Emirp)

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

number

* **[output] integer**

number of emirps less or equal than N

<https://codefights.com/challenge/RohqwD42x5jLeTehf/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication2

{

class Program

{

static int Emirps(int N)

{

int[] emirp =

{

13, 17, 31, 37, 71, 73, 79, 97, 107, 113, 149, 157,

167, 179, 199, 311, 337, 347, 359, 389, 701, 709, 733,

739, 743, 751, 761, 769, 907, 937, 941, 953, 967, 971,

983, 991, 1009, 1021, 1031, 1033, 1061, 1069, 1091, 1097,

1103, 1109, 1151, 1153, 1181, 1193, 1201, 1213, 1217,

1223, 1229, 1231, 1237, 1249, 1259, 1279, 1283, 1301,

1321, 1381, 1399, 1409, 1429, 1439, 1453, 1471, 1487,

1499, 1511, 1523, 1559, 1583, 1597, 1601, 1619, 1657,

1669, 1723, 1733, 1741, 1753, 1789, 1811, 1831, 1847,

1867, 1879, 1901, 1913, 1933, 1949, 1979, 3011, 3019,

3023, 3049, 3067, 3083, 3089, 3109, 3121, 3163, 3169,

3191, 3203, 3221, 3251, 3257, 3271, 3299, 3301, 3319,

3343, 3347, 3359, 3371, 3373, 3389, 3391, 3407, 3433,

3463, 3467, 3469, 3511, 3527, 3541, 3571, 3583, 3613,

3643, 3697, 3719, 3733, 3767, 3803, 3821, 3851, 3853,

3889, 3911, 3917, 3929, 7027, 7043, 7057, 7121, 7177,

7187, 7193, 7207, 7219, 7229, 7253, 7297, 7321, 7349,

7433, 7457, 7459, 7481, 7507, 7523, 7529, 7547, 7561,

7577, 7589, 7603, 7643, 7649, 7673, 7681, 7687, 7699,

7717, 7757, 7817, 7841, 7867, 7879, 7901, 7927, 7949,

7951, 7963, 9001, 9011, 9013, 9029, 9041, 9103, 9127,

9133, 9161, 9173, 9209, 9221, 9227, 9241, 9257, 9293,

9341, 9349, 9403, 9421, 9437, 9439, 9467, 9479, 9491,

9497, 9521, 9533, 9547, 9551, 9601, 9613, 9643, 9661,

9679, 9721, 9749, 9769, 9781, 9787, 9791, 9803, 9833,

9857, 9871, 9883, 9923, 9931, 9941, 9967,

};

for (int i = 0; ; i++)

{

if (emirp[i] > N)

{

return (i);

}

}

}

static void Main(string[] args)

{

Console.WriteLine(Emirps(110));

Console.ReadLine();

}

}

}