

Determine if a number is prime. If it is not, then display its largest factor

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/*
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C#: The Complete Reference
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by Herbert Schildt
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```
Determine if a number is prime. If it is not,  
then display its largest factor.
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*/
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```
using System;
```

```
public class FindPrimes {
```

```
public static void Main() {
```

```
int num;
```

```
int i;
```

```
int factor;
```

```
bool isprime;
```

```
for(num = 2; num < 20; num++) { isprime = true; factor = 0; //  
see if num is evenly divisible for(i=2; i <= num/2; i++) {  
if((num % i) == 0) { // num is evenly divisible -- not prime  
isprime = false; factor = i; } } if(isprime)  
Console.WriteLine(num + " is prime."); else  
Console.WriteLine("Largest factor of " + num + " is " +  
factor); } } } [/csharp]
```