

Demonstrate the ByTwos interface 2

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/*
C#: The Complete Reference
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*/
using System;

public interface ISeries {
    int getNext(); // return next number in series
    void reset(); // restart
    void setStart(int x); // set starting value
}

// Use ISeries to generate a sequence of even numbers.
class ByTwos : ISeries {
    int start;
    int val;

    public ByTwos() {
        start = 0;
        val = 0;
    }

    public int getNext() {
        val += 2;
        return val;
    }

    public void reset() {
        val = start;
    }
}
```

```
public void setStart(int x) {
    start = x;
    val = start;
}
}

// Use ISeries to implement a series of prime numbers.
class Primes : ISeries {
    int start;
    int val;

    public Primes() {
        start = 2;
        val = 2;
    }

    public int getNext() {
        int i, j;
        bool isprime;

        val++;
        for(i = val; i < 1000000; i++) { isprime = true; for(j = 2; j
        < (i/j + 1); j++) { if((i%j)==0) { isprime = false; break; } }
        if(isprime) { val = i; break; } } return val; } public void
        reset() { val = start; } public void setStart(int x) { start =
        x; val = start; } } public class SeriesDemo2 { public static
        void Main() { ByTwos two0b = new ByTwos(); Primes prime0b =
        new Primes(); ISeries ob; for(int i=0; i < 5; i++) { ob =
        two0b; Console.WriteLine("Next ByTwos value is " +
        ob.getNext()); ob = prime0b; Console.WriteLine("Next prime
        number is " + ob.getNext()); } } } [/csharp]
```