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L12 PROBLEM 5 (5/5 points)

Write a generator, `genPrimes`, that returns the sequence of [prime numbers](http://en.wikipedia.org/wiki/Prime_number) (http://en.wikipedia.org/wiki/Prime_number) on successive calls to its `next()` method: 2, 3, 5, 7, 11, ...

Hints

[Ideas about the problem](#)

```
1 def genPrimes():
2     primes, next = [], 2
3     while True:
4         next_is_prime = True
5         for prime in primes:
6             if next % prime == 0:
7                 next_is_prime = False
8                 break
9         if next_is_prime:
10            primes.append(next)
11            yield next
12            last_prime = next
13            next += 1
```

Correct

Note that our solution makes use of the for/else clause, which
you can read more about here:
<http://docs.python.org/release/1.5/tut/node23.html>

```
def genPrimes():
    primes = [] # primes generated so far
    last = 1    # last number tried
    while True:
        last += 1
        for p in primes:
            if last % p == 0:
                break
        else:
            primes.append(last)
            yield last
```

Test results

CORRECT

[See full output](#)[See full output](#)

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