

Python sample code:

```
1 import itertools
2
3 def iter_primes():
4     # an iterator of all numbers between 2 and +infinity
5     numbers = itertools.count(2)
6
7     # generate primes forever
8     while True:
9         # get the first number from the iterator (always a prime)
10        prime = numbers.next()
11        yield prime
12
13        # this code iteratively builds up a chain of
14        # filters...slightly tricky, but ponder it a bit
15        numbers = itertools.ifilter(prime.__rmod__, numbers)
16
17 for p in iter_primes():
18     if p > 1000:
19         break
20     print p
```