

```
1 Counter counter = new Counter(1);      // shared by all threads
2 void primePrint {
3     long i = 0;
4     long limit = power(10, 10);
5     while (i < limit) {                  // loop until all numbers taken
6         i = counter.getAndIncrement();   // take next untaken number
7         if (isPrime(i))
8             print(i);
9     }
10 }
```

FIGURE 1.2 Balancing the work load using a shared counter. Each thread is given a dynamically determined number of numbers to test.