

```
1 package me.jamiepeterson.al6primenumbers;
2
3 public class Primes {
4     private int primeCount;
5
6     public Primes(int primeCount){
7         this.primeCount = primeCount;
8     }
9
10    public int[] getPrimes() {
11
12        int[] primes = new int[primeCount];
13        for(int i = 0; i < primeCount; i++)
14            primes[i]=0;
15        int count = 2;
16        int i = 0;
17        while (primes[primeCount - 1] == 0){
18            if(isPrime(count)){
19                primes[i] = count;
20                i++;
21            }
22            count ++;
23        }
24        return primes;
25    }
26
27    private boolean isPrime(int maybePrime){
28        if (maybePrime == 2 || maybePrime == 3) {
29            return true;
30        }
31        if (maybePrime % 2 == 0) {
32            return false;
33        }
34        int sqrt = (int) Math.sqrt(maybePrime) + 1;
35        for (int i = 3; i < sqrt; i += 2) {
36            if (maybePrime % i == 0) {
37                return false;
38            }
39        }
40        return true;
41    }
42 }
43
```