Assignment #3

1.)

1. Initialization

2. numPrimes < n
   — True →

3. curPrime++
   isPrime = true

4. i <= numPrimes-1
   — True →
   — False →

5. isDivisible(primes[i], curPrime)
   — False →
   — True →

6. isPrime = false

7. isPrime
   — False →
   — True →

8. primes[numPrimes] = curPrime
   numPrimes++

2. numPrimes < n
   — False →

9. i <= numPrimes-1
   — True →
   — False → End

10. System.out.println("Prime: " + primes[i])

11. End
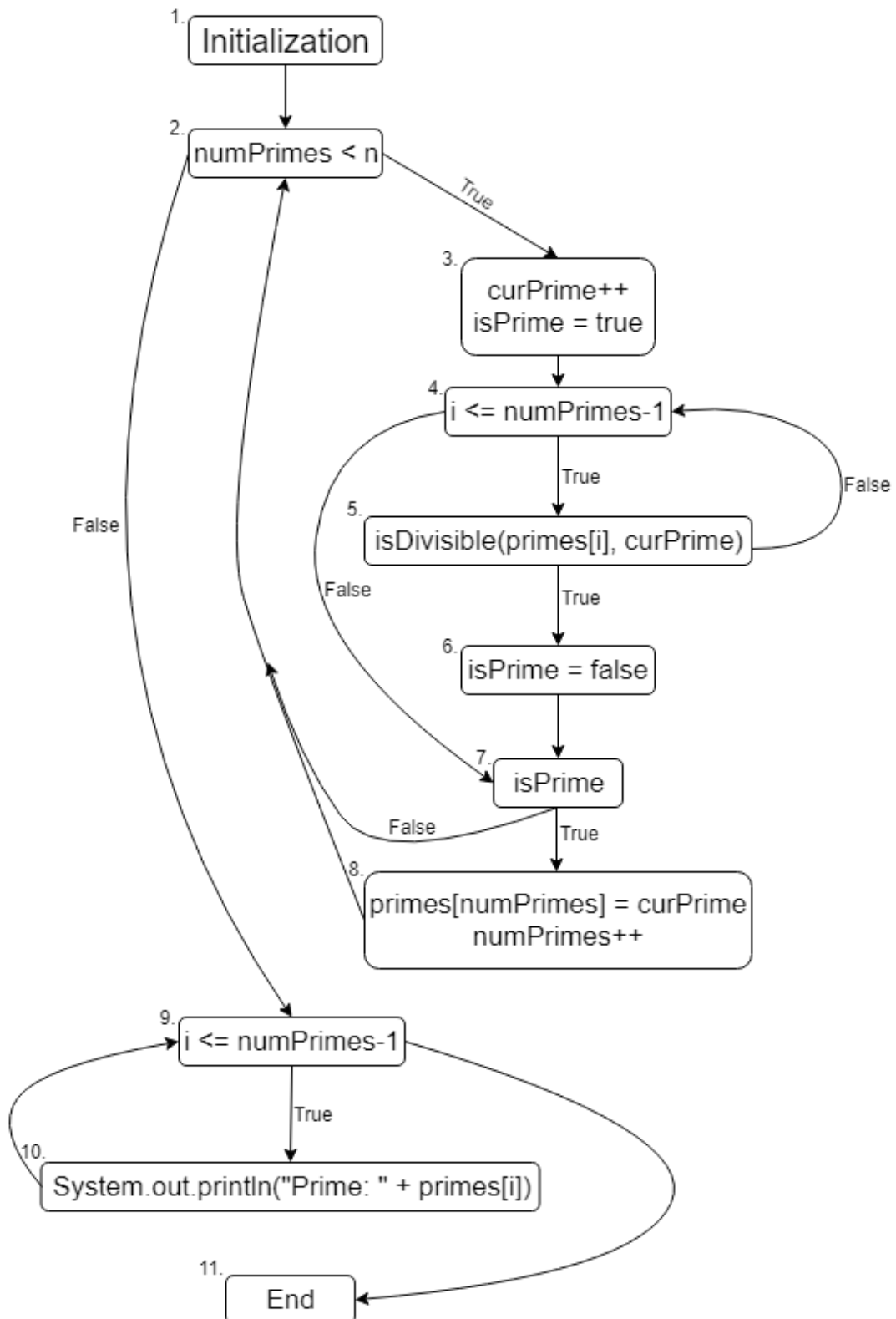
2.)

Any test case in which n <=1

3.)

[(1, 2), (2, 3), (3, 4), (4, 5), (5, 6), (6, 7), (7, 8), (8, 2), (2, 9), (9, 10), (10, 9), (9, 11)]

[(1, 2), (2, 3), (3, 4), (4, 5), (5, 4), (4, 7), (7, 2), (2, 9), (9, 11)]