

```

public class LargestPrime {
    static long largestPrime = 0L;

    public LargestPrime() {
    }

    public static void main(String[] args) {
        long value = 600851475143L;
        findingFactors(value);
        System.out.println("The largest prime is: " + largestPrime);
    }

    public static long findingFactors(long value) {
        int counter = 0;

        for(int i = 2; (long)i < value; ++i) {
            if (value % (long)i == 0L) {
                System.out.println("value: " + value);
                System.out.println("division " + value / (long)i);
                return findingFactors(value / (long)i);
            }

            ++counter;
            if ((long)counter == value - 2L) {
                System.out.println("Over here");
                largestPrime = value;
                return largestPrime;
            }
        }

        return 1L;
    }
}

```

