```
import java.util.Arrays;
import java.util.Scanner;
import java.text.DecimalFormat;
public class SieveOfEratosthenes {
       public static void main(String[] args) {
              // TODO Auto-generated method stub
               System.out.println("Sieve of Eratosthenes Lab");
          Scanner stitch = new Scanner (System.in);
          for (int i = 0; i < 2; i++) {
          System.out.print("Enter the primes upper bound ===>> ");
          final int MAX = stitch.nextInt();
          boolean primes[] = new boolean[MAX];
          computePrimes(primes);
          displayPrimes(primes);
          System.out.println();
         //System.out.println(Arrays.toString(primes));
        }
        public static void computePrimes(boolean primeArray[])
        { // This method will compute the prime numbers
               System.out.println("COMPUTING PRIME NUMBERS....");
              for (int i = 2; i < primeArray.length; <math>i++) {
                      primeArray [i] = true;
                      //System.out.println(Arrays.toString(primeArray));
              }
              for (int i = 2; i <= Math.sqrt(primeArray.length); i++) {
                      if (primeArray[i] == true) {
                              for (int z = 2 * i; z < primeArray.length; z = z + i) {
                                     primeArray[z] = false;
                             }
                      }
              }
        }
        public static void displayPrimes(boolean primeArray[])
        { // This method will display the prime numbers
                System.out.println("PRIMES BETWEEN 1 AND " +(primeArray.length) +":");
                //System.out.println(Arrays.toString(primeArray));
```