```java
import java.util.Arrays;
import java.util.Scanner;

public class Sieve {

        public static void main(String[] args) {
                Scanner scan = new Scanner(System.in);
                System.out.println("Welcome to the Sieve of Eratosthenes");
                System.out.println("Enter an upper bound for the prime search");
                final int max = scan.nextInt();
                scan.close();
                boolean[] primes = computePrimes(max);
                displayPrimes(primes);
        }

        public static boolean[] computePrimes(int upBound) {
                int j = 2;
                boolean[] primeArray = new boolean[upBound + 1];
                Arrays.fill(primeArray, true);
                primeArray[0] = false;
                primeArray[1] = false;
                for (int i = 2; i <= upBound; i++) {
                        if (primeArray[i] == true) {
                                for (j = 2; j < (upBound / i) + 1; j++) {
                                primeArray[i * j] = false;
                                }
                                j = 2;
                        }
                }
                return primeArray;
        }

        public static void displayPrimes(boolean[] primeArray) {
                int newLine = 0;
                for (int i = 0; i <= primeArray.length - 1; i++) {
                        if (primeArray[i] == true) {
                                if (newLine >= 16) {
                                        System.out.print("\n");
                                        newLine = 0;
                                }
                                if (i < 10) {
                                        System.out.print("000" + i + " ");
                                } else if (i < 100) {
                                        System.out.print("00" + i + " ");
```

```java
			} else if (i < 1000) {
				System.out.print("0" + i + " ");
			} else {
				System.out.print(i + " ");
			}
			newLine++;
		}
	}
}
```