public class PrimeCheck {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter your number: ");

int x = input.nextInt();

int count = 0;

for (int i = 1; i <= x; i++) {

if (x % i == 0) {

count++;

}

}

if (count == 2) {

System.out.println("is Prime");

} else {

System.out.println("not prime");

}

}

}

public class Factorial {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter your number: ");

int a = input.nextInt();

int fact = 1;

for (int i = a; i > 1; i--) {

fact \*= i;

}

System.out.println(fact);

}

}

public class SentinalValue {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

int sum = 0;

for (int i = 0; i > -1; i++) {

System.out.println("Enter your number: ");

int x = input.nextInt();

if (x > 0) {

sum += x;

} else {

break;

}

}

System.out.println(sum);

}

}

public class TwoDArraySort {

public static void main(String[] args) {

int sum = 0;

int[][] data = {

{4, 5, 8, 0, 7, 0, 2, 5},

{4, 5, 8, 0, 7, 0, 2, 5},

{4, 5, 8, 0, 7, 0, 2, 5},

{4, 5, 8, 0, 7, 0, 2, 5}

};

System.out.println("Data Table");

for (int[] d : data) {

Arrays.sort(d);

for (int a : d) {

System.out.println(a);

sum += a;

}

System.out.println();

}

System.out.println("Total = " + sum);

}

}

public class Palindrome {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter your number: ");

String s = input.next();

int low = 0;

int high = s.length() - 1;

boolean isPalindrome = true;

while (low < high) {

if (s.charAt(low) != s.charAt(high)) {

isPalindrome = false;

break;

}

low++;

high--;

}

if (isPalindrome) {

System.out.println("is palindrome");

} else {

System.out.println("not palindrome");

}

}

}

public class BiggestNumberFrom3 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter your number: ");

isBiggestNumber(input.nextInt(), input.nextInt(), input.nextInt());

}

static void isBiggestNumber(int n1, int n2, int n3) {

if (n1 > n2 && n1 > n3) {

System.out.println(n1 + " is biggest");

} else if (n2 < n1 && n2 > n3) {

System.out.println(n2 + " is biggest");

} else if (n3 > n1 && n3 > n1) {

System.out.println(n3 + " is biggest");

} else {

System.out.println(n1 + " " + n2 + " " + n3 + " all are equals");

}

}

}

public class MaxMin {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter your number: ");

int length = input.nextInt();

int a[] = new int[length];

int max = 0;

int min = 0;

for (int i = 0; i < length; i++) {

System.out.println("Enter your number: ");

a[i] = input.nextInt();

if (i == 0) {

max = a[i];

min = a[i];

} else if (a[i] < max) {

max = a[i];

} else if (a[i] > min) {

min = a[i];

} else {

continue;

}

}

System.out.println("Biggest numbr is: " + max);

System.out.println("Lowest numbr is: " + min);

}

}