Package week7;

import java.util.Scanner;

public class IsBetween {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter the first number: ");

int firstNumber = scanner.nextInt();

System.out.println("Enter the second number: ");

int secondNumber = scanner.nextInt();

System.out.println("Enter the third number: ");

int thirdNumber = scanner.nextInt();

if (firstNumber < 0 || firstNumber > 1000) {

System.out.println("The first number must be between 0 and 1000.");

return;

}

if (secondNumber < 0 || secondNumber > 1000) {

System.out.println("The second number must be between 0 and 1000.");

return;

}

if (thirdNumber < 0 || thirdNumber > 1000) {

System.out.println("The third number must be between 0 and 1000.");

return;

}

boolean isBetween = isBetween(firstNumber, secondNumber, thirdNumber);

if (isBetween) {

System.out.println("The second number is between the first and third numbers.");

} else {

System.out.println("The second number is not between the first and third numbers.");

}

System.out.println("Would you like to play again? (Y/N)");

String answer = scanner.next();

while (!answer.equals("Y") && !answer.equals("N")) {

System.out.println("Please enter a valid response. (Y/N)");

answer = scanner.next();

}

if (answer.equals("Y")) {

main(args);

}

}

public static boolean isBetween(int firstNumber, int secondNumber, int thirdNumber) {

return firstNumber < secondNumber && secondNumber < thirdNumber;

}

}

Package week7;

import java.util.Scanner;

public class LargestNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter three whole numbers:");

int num1 = getValidNumber(scanner);

int num2 = getValidNumber(scanner);

int num3 = getValidNumber(scanner);

int largestNumber = findLargestNumber(num1, num2, num3);

System.out.println("The largest number is: " + largestNumber);

System.out.println("Would you like to play again? (Y/N)");

String playAgain = scanner.next();

while (playAgain.equalsIgnoreCase("Y")) {

num1 = getValidNumber(scanner);

num2 = getValidNumber(scanner);

num3 = getValidNumber(scanner);

largestNumber = findLargestNumber(num1, num2, num3);

System.out.println("The largest number is: " + largestNumber);

System.out.println("Would you like to play again? (Y/N)");

playAgain = scanner.next();

}

}

private static int getValidNumber(Scanner scanner) {

int number;

do {

System.out.print("Enter a whole number: ");

number = scanner.nextInt();

} while (number < 1);

return number;

}

private static int findLargestNumber(int num1, int num2, int num3) {

int largestNumber = num1;

if (num2 > largestNumber) {

largestNumber = num2;

}

if (num3 > largestNumber) {

largestNumber = num3;

}

return largestNumber;

}

}