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//Author: Samuele Joshi, Date: 20/10/2019
//Description: Asks user how many buses arrive at a bus stop & how late they were.
import java.util.Scanner;
import java.util.ArrayList;
import java.util.Collections;

public class Main{
    //Main method - Initiates the bus count method.
    public static void main (String[] args) {
        startBusCount();
    }
    //User is asked the bus route & how late the bus was. Any data entered is kept in a separate
    dedicated arraylist.
    //If user enters in 0, the program ends displaying how many buses past, the most delayed bus &
    what route was the most delayed bus.
    public static void startBusCount(){
        Scanner userInput = new Scanner (System.in);
        ArrayList<Integer> busPast = new ArrayList<Integer>();
        ArrayList<Integer> busLateness = new ArrayList<Integer>();
        //Never ending loop unless 0 is entered in the program.
        while (true){
            System.out.print("Bus Route: ");
            int busRoute = userInput.nextInt();
            busPast.add(busRoute);

            if (busRoute >= 1){
                System.out.print("Late by: ");
                int busLate = userInput.nextInt();
                busLateness.add(busLate);
            } else{
                break;
            }
        } //Displays final result.
        System.out.print(busPast.size() - 1 + " buses passed. The most delayed bus was " +
        Collections.max(busLateness) + " on route " + Collections.max(busPast) + ".");
    }
}

```