// Created by: Nicholas Carroll 10 December 2018

**package** lab6;

**import** java.util.Scanner;

**public** **class** Array {

**public** **static** **void** main(String[] args) {

Scanner input = **new** Scanner(System.***in***);

**int** [] num = **new** **int**[100];

**int** [] count = **new** **int**[100];

//Declare counter variable and temp variable that will temporarily hold the value at a certain index of num[] array

**int** i, temp = 0;

System.***out***.println("Enter the integers between 1 and 100: ");

//Initialize num[] array with user input

**for**(i=0; i < num.length; i++) {

num[i] = input.nextInt();

//expected input will end when user enters zero

**if**(num[i] == 0) {

System.***out***.println("You entered only the sentinel value.");

}

} //end of for loop

**for**(i = 0; i < num.length; i++){

temp = num[i];

count[temp]++;

}//end of for loop

**for**(i = 1; i < count.length; i++){

**if**(count[i] > 0 && count[i] == 1){

System.***out***.printf("%d occurs %d time\n",i, count[i]);

}

**else** **if**(count[i] >=2){

System.***out***.printf("%d occurs %d times\n",i, count[i]);

}

}

}

}