Giovanni Acireale

Assignment #4

public class assignment4

{

// S1 opens every L

// S2 closes every 2

// S3 close 3 and changes every 3rd

// S# (4-50) changes any L# / #

// S# (51 - 100) changes == L#

public static void main(String[] args)

{

//L# : i = #

//creates boolean array

boolean[] lockers = new boolean[100];

for(int i = 0; i < lockers.length; i++)

{

//automatically set to false

//false is a closed L

//System.out.println(lockers[i]);

//System.out.println("L" + (i + 1) + (lockers[i]? " is open" : " is closed") + " (" + lockers[i] + ")");

}

for (int i = 0; i < lockers.length; i++)

{

for (int j = i; j < 100; j += i + 1) {

//any locker equal to j

lockers[j] = !lockers[j];

}

//System.out.println(lockers[i]);

//System.out.println("L" + (i + 1) + (lockers[i]? " is open" : " is closed") + " (" + lockers[i] + ")");

if (lockers[i] == true)

{

System.out.println("Locker " + (i + 1) + " is open");

}

}

}

}

