**Код для задания №2**

import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.util.ArrayList;

public class Main {

public static void main(String[] args) throws Exception {

BufferedReader reader = new BufferedReader(new InputStreamReader(System.in));

String s = reader.readLine();

int i = Integer.parseInt(s);

String m = reader.readLine();

int y = Integer.parseInt(m);

if (i <= 0 || y <= 0) throw new Exception();

System.out.println(i);

System.out.println(y);

int r;

while (y != 0) {

r = i % y;

i = y;

y = r;

}

}

}