

## Problem K. The Zoo

Today, Khoa went to the big zoo in Da Nang city. Khoa is very interested in tigers and ostriches. He asked a zookeeper how many tigers and ostriches in the zoo. The zookeeper answered, "Among the animals there are *n* eyes and *m* feet."

How many of each kind of animal were there?





## Input

The input contains two positive integers n ( $1 \le n \le 10^{15}$ ) and m ( $1 \le m \le 10^{15}$ ).

## **Output**

The output contains the number of tigers and ostriches. If there is no solution, output the only word "IMPOSSIBLE".

## **Examples**

Standard Input	Standard Output
6 10	2 1
10 8	IMPOSSIBLE