Problem U. Harmony

Time limit 2000 ms **Mem limit** 1048576 kB

Problem Statement

We have two distinct integers A and B.

Print the integer K such that |A - K| = |B - K|.

If such an integer does not exist, print IMPOSSIBLE instead.

Constraints

- All values in input are integers.
- $0 \le A, B \le 10^9$
- *A* and *B* are distinct.

Input

Input is given from Standard Input in the following format:

A B

Output

Print the integer K satisfying the condition.

If such an integer does not exist, print IMPOSSIBLE instead.

Sample 1

	Input	Output
2 16		9

|2-9|=7 and |16-9|=7, so 9 satisfies the condition.

Sample 2

Input	Output
0 3	IMPOSSIBLE

No integer satisfies the condition.

Sample 3

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Input	Output
998244353 99824435	549034394