

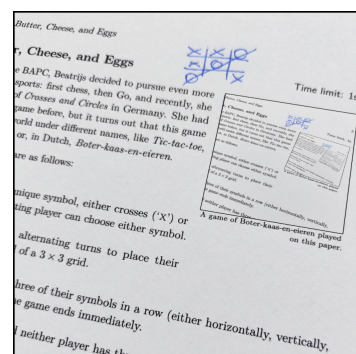
B Butter, Cheese, and Eggs

Time limit: 1s

After winning the BAPC, Beatrijs decided to pursue even more demanding mind sports: first chess, then Go, and recently, she learned the game of *Crosses and Circles* in Germany. She had never heard of this game before, but it turns out that this game is known across the world under different names, like *Tic-tac-toe*, *Noughts and Crosses*, or, in Dutch, *Boter-kaas-en-eieren*.

The rules of the game are as follows:

- Each player has a unique symbol, either crosses ('X') or circles ('O'). The starting player can choose either symbol.
- The two players take alternating turns to place their symbol in an empty cell of a 3×3 grid.
- The first player to place three of their symbols in a row (either horizontally, vertically, or diagonally) wins, and the game ends immediately.
- If all nine cells are filled and neither player has three symbols in a row, the game is a draw.



To improve her skills, Beatrijs has been watching the world championship games of crosses and circles, and one game in particular stuck with her: she remembers a board state where x crosses and o circles were played, but she can recall neither the exact sequence of moves nor the final board state.

On more careful thought, Beatrijs is not even sure if the game was valid at all, and she wonders if it is even possible for a valid game to have x crosses and o circles.

Input

The input consists of:

- One line with two integers x and o ($0 \leq x, o \leq 9$), the number of crosses and circles.

Output

If it is possible to construct a valid board state, output 3 strings of 3 characters, each character being either 'O' for a circle, 'X' for a cross, or '.' for an empty cell. Otherwise, output "impossible".

If there are multiple valid solutions, you may output any one of them.

Sample Input 1

1 2	OX. .O. ...
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Sample Output 1**Sample Input 2**

3 4	OXO XO. O.X
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Sample Output 2**Sample Input 3**

5 3	impossible
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Sample Output 3**Sample Input 4**

1 0	X. ...
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Sample Output 4**Sample Input 5**

6 7	impossible
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Sample Output 5