166. Fraction to Recurring Decimal

Description

Given two integers representing the numerator and denominator of a fraction, return the fraction in string format.

If the fractional part is repeating, enclose the repeating part in parentheses.

If multiple answers are possible, return any of them.

It is **guaranteed** that the length of the answer string is less than 104 for all the given inputs.

Example 1:

```
Input: numerator = 1, denominator = 2
Output: "0.5"
```

Example 2:

```
Input: numerator = 2, denominator = 1
Output: "2"
```

Example 3:

```
Input: numerator = 4, denominator = 333
Output: "0.(012)"
```

Constraints:

- -2^{31} <= numerator, denominator <= 2^{31} 1
- denominator != 0