

# 2232. Minimize Result by Adding Parentheses to Expression

## Description

You are given a **0-indexed** string `expression` of the form "`<num1>+<num2>`" where `<num1>` and `<num2>` represent positive integers.

Add a pair of parentheses to `expression` such that after the addition of parentheses, `expression` is a **valid** mathematical expression and evaluates to the **smallest** possible value. The left parenthesis **must** be added to the left of `'+'` and the right parenthesis **must** be added to the right of `'+'`.

Return `expression` *after adding a pair of parentheses such that `expression` evaluates to the **smallest possible value***. If there are multiple answers that yield the same result, return any of them.

The input has been generated such that the original value of `expression`, and the value of `expression` after adding any pair of parentheses that meets the requirements fits within a signed 32-bit integer.

### Example 1:

```
Input: expression = "247+38"
Output: "2(47+38)"
Explanation: The expression evaluates to 2 * (47 + 38) = 2 * 85 = 170.
Note that "2(4)7+38" is invalid because the right parenthesis must be to the right of the '+'.
It can be shown that 170 is the smallest possible value.
```

### Example 2:

```
Input: expression = "12+34"
Output: "1(2+3)4"
Explanation: The expression evaluates to 1 * (2 + 3) * 4 = 1 * 5 * 4 = 20.
```

### Example 3:

```
Input: expression = "999+999"
Output: "(999+999)"
Explanation: The expression evaluates to 999 + 999 = 1998.
```

### Constraints:

- `3 <= expression.length <= 10`
- `expression` consists of digits from `'1'` to `'9'` and `'+'`.
- `expression` starts and ends with digits.
- `expression` contains exactly one `'+'`.
- The original value of `expression`, and the value of `expression` after adding any pair of parentheses that meets the requirements fits within a signed 32-bit integer.

