

# 1927. Sum Game

## Description

Alice and Bob take turns playing a game, with **Alice** starting first.

You are given a string `num` of **even length** consisting of digits and `'?'` characters. On each turn, a player will do the following if there is still at least one `'?'` in `num`:

- Choose an index `i` where `num[i] == '?'`.
- Replace `num[i]` with any digit between `'0'` and `'9'`.

The game ends when there are no more `'?'` characters in `num`.

For Bob to win, the sum of the digits in the first half of `num` must be **equal** to the sum of the digits in the second half. For Alice to win, the sums must **not be equal**.

- For example, if the game ended with `num = "243801"`, then Bob wins because `2+4+3 = 8+0+1`. If the game ended with `num = "243803"`, then Alice wins because `2+4+3 != 8+0+3`.

Assuming Alice and Bob play **optimally**, return `true` *if Alice will win and* `false` *if Bob will win*.

### Example 1:

**Input:** `num = "5023"`  
**Output:** `false`  
**Explanation:** There are no moves to be made.  
The sum of the first half is equal to the sum of the second half: `5 + 0 = 2 + 3`.

### Example 2:

**Input:** `num = "25??"`  
**Output:** `true`  
**Explanation:** Alice can replace one of the `'?'`s with `'9'` and it will be impossible for Bob to make the sums equal.

### Example 3:

**Input:** `num = "?3295???"`  
**Output:** `false`  
**Explanation:** It can be proven that Bob will always win. One possible outcome is:  
– Alice replaces the first `'?'` with `'9'`. `num = "93295???"`.  
– Bob replaces one of the `'?'` in the right half with `'9'`. `num = "932959??"`.  
– Alice replaces one of the `'?'` in the right half with `'2'`. `num = "9329592?"`.  
– Bob replaces the last `'?'` in the right half with `'7'`. `num = "93295927"`.  
Bob wins because `9 + 3 + 2 + 9 = 5 + 9 + 2 + 7`.

### Constraints:

- `2 <= num.length <= 105`
- `num.length` is **even**.
- `num` consists of only digits and `'?'`.

