6296. Alternating Digit Sum

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You are given a positive integer `n`. Each digit of `n` has a sign according to the following rules:

- The **most significant digit** is assigned a **positive** sign.
- Each other digit has an opposite sign to its adjacent digits.

Return *the sum of all digits with their corresponding sign*.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Example 1:

```
Input: n = 521
Output: 4
Explanation: (+5) + (-2) + (+1) = 4.
```

Example 2:

```
Input: n = 111
Output: 1
Explanation: (+1) + (-1) + (+1) = 1.
```

Example 3:

```
Input: n = 886996
Output: 0
Explanation: (+8) + (-8) + (+6) + (-9) + (+9) + (-6) = 0.
```

Constraints:

- $1 <= n <= 10^9$

JavaScript

```
const alternateDigitSum = (n) => {
    let s = n + '', res = 0, sign = 1;
    for (const c of s) {
        res += (c - '0') * sign;
        sign *= -1;
    }
    return res;
};
```

Custom Testcase Use Example Testcases

Run Submit

Submission Result: Accepted (/submissions/detail/882766169/) More Details (/submissions/detail/882766169/)

Share your acceptance!