

6362. Find the Longest Balanced Substring of a Binary String

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You are given a binary string `s` consisting only of zeroes and ones.

A substring of `s` is considered balanced if **all zeroes are before ones** and the number of zeroes is equal to the number of ones inside the substring. Notice that the empty substring is considered a balanced substring.

Return *the length of the longest balanced substring* of `s`.

A **substring** is a contiguous sequence of characters within a string.

User Accepted:	1
User Tried:	5
Total Accepted:	1
Total Submissions:	5
Difficulty:	Easy

Example 1:

Input: `s = "01000111"`
Output: 6
Explanation: The longest balanced substring is "000111", which has length 6.

Example 2:

Input: `s = "00111"`
Output: 4
Explanation: The longest balanced substring is "0011", which has length 4.

Example 3:

Input: `s = "111"`
Output: 0
Explanation: There is no balanced substring except the empty substring, so the answer is 0.

Constraints:

- `1 <= s.length <= 50`
- `'0' <= s[i] <= '1'`

JavaScript

1 const findTheLongestBalancedSubstring = (s) => {
2 let n = s.length, res = 0;
3 for (let i = 0; i < n; i++) {
4 for (let j = i; j < n; j++) {
5 let sub = s.slice(i, j + 1);
6 if (ok(sub)) res = Math.max(res, j - i + 1);
7 }
8 }
9 return res;
10 };
11
12 const ok = (s) => {
13 let n = s.length, zero = [], one = [];
14 for (let i = 0; i < n; i++) s[i] == '0' ? zero.push(i) : one.push(i);
15 return zero[zero.length - 1] < one[0] && zero.length == one.length;
16 };
17 }

[Use Example Testcases](#)

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Use Example Testcases

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