You are given a string containing only 4 kinds of characters 'Q', 'W', 'E' and 'R'.

A string is said to be **balanced**if each of its characters appears n/4 times where n is the length of the string.

Return the minimum length of the substring that can be replaced with **any** other string of the same length to make the original string s **balanced**.

Return 0 if the string is already **balanced**.

**Example 1:**

**Input:** s = "QWER"

**Output:** 0

**Explanation:** s is already balanced.

**Example 2:**

**Input:** s = "QQWE"

**Output:** 1

**Explanation:** We need to replace a 'Q' to 'R', so that "RQWE" (or "QRWE") is balanced.

**Example 3:**

**Input:** s = "QQQW"

**Output:** 2

**Explanation:** We can replace the first "QQ" to "ER".

**Example 4:**

**Input:** s = "QQQQ"

**Output:** 3

**Explanation:** We can replace the last 3 'Q' to make s = "QWER".

**Constraints:**

* 1 <= s.length <= 10^5
* s.length is a multiple of 4
* s contains only 'Q', 'W', 'E' and 'R'.