**1461. Check If a String Contains All Binary Codes of Size K**

Medium

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Given a binary string s and an integer k.

Return *True* if all binary codes of length k is a substring of s. Otherwise, return *False*.

**Example 1:**

**Input:** s = "00110110", k = 2

**Output:** true

**Explanation:** The binary codes of length 2 are "00", "01", "10" and "11". They can be all found as substrings at indicies 0, 1, 3 and 2 respectively.

**Example 2:**

**Input:** s = "00110", k = 2

**Output:** true

**Example 3:**

**Input:** s = "0110", k = 1

**Output:** true

**Explanation:** The binary codes of length 1 are "0" and "1", it is clear that both exist as a substring.

**Example 4:**

**Input:** s = "0110", k = 2

**Output:** false

**Explanation:** The binary code "00" is of length 2 and doesn't exist in the array.

**Example 5:**

**Input:** s = "0000000001011100", k = 4

**Output:** false

**Constraints:**

* 1 <= s.length <= 5 \* 10^5
* s consists of 0's and 1's only.
* 1 <= k <= 20