You have a long flowerbed in which some of the plots are planted, and some are not. However, flowers cannot be planted in **adjacent** plots.

Given an integer array flowerbed containing 0's and 1's, where 0 means empty and 1 means not empty, and an integer n, return true *if* n *new flowers can be planted in the* flowerbed *without violating the no-adjacent-flowers rule and* false *otherwise*.

**Example 1:**

Input: flowerbed = [1,0,0,0,1], n = 1  
Output: true

**Example 2:**

Input: flowerbed = [1,0,0,0,1], n = 2  
Output: false

**Constraints:**

* 1 <= flowerbed.length <= 2 \* 104
* flowerbed[i] is 0 or 1.
* There are no two adjacent flowers in flowerbed.
* 0 <= n <= flowerbed.length