Suppose 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 - they would compete for water and both would die.

Given a flowerbed (represented as an array containing 0 and 1, where 0 means empty and 1 means not empty), and a number **n**, return if **n** new flowers can be planted in it without violating the no-adjacent-flowers rule.

**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

**Note:**

1. The input array won't violate no-adjacent-flowers rule.
2. The input array size is in the range of [1, 20000].
3. **n** is a non-negative integer which won't exceed the input array size.