11.07.2024, 16:50 LeetCode Submissions

605 Can Place Flowers (link)

Description

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

(scroll down for solution)

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Solution

Language: cpp

Status: Accepted

```
#include <vector>
using namespace std;
class Solution {
public:
    bool canPlaceFlowers(vector<int>& flowerbed, int n) {
        int count = 0;
        int size = flowerbed.size();
        for (int i = 0; i < size; ++i) {</pre>
            if (flowerbed[i] == 0 &&
                 (i == 0 \mid | flowerbed[i-1] == 0) &&
                 (i == size - 1 || flowerbed[i+1] == 0)) {
                flowerbed[i] = 1;
                count++;
            }
            if (count >= n) {
                 return true;
            }
        }
        return count >= n;
    }
};
```

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