75 Days of Code

Day4
Problem no: 605

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

Solution

For this problem , as shown in example

- Check if element at index before and after and current position should be zero .
- (exception condition when n-1 does not exit put a or condition it with index which is first element similarly for the last element

Shubham Agrahari

```
function canPlaceFlowers(flowerbed: number[], n: number): boolean {
    const plotLength = flowerbed.length;
    if(plotLength===0)return true;
    let count =0;
        for(let plotIndex =0;plotIndex<plotLength ;plotIndex++){
           if( flowerbed[plotIndex]=== 0 &&
           (plotIndex=== 0 || flowerbed[plotIndex-1]=== 0) &&
            (plotIndex === plotLength-1 || flowerbed[plotIndex+1]===0 ) ){
              flowerbed[plotIndex]=1;
                    count++;
                    if(count>n)break;
           }
        }
          return (count>=n)?true:false
    };

    const replaceFlowerResult = canPlaceFlowers([1,0,0,0,1],1);
    console.log(replaceFlowerResult)
```

```
PROBLEMS 6  OUTPUT  DEBUG CONSOLE  TERMINAL  GITLENS                Code
[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day4.js"
true
```