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# ✅ Solution for Can Place Flowers

# Define the function inside a class, as required by LeetCode
class Solution:
    def canPlaceFlowers(self, flowerbed, n):
        count = 0  # Counter for how many flowers we can plant
        length = len(flowerbed)

        for i in range(length):
            # Check if current spot is empty
            if flowerbed[i] == 0:
                # Check left and right spots
                empty_left = (i == 0) or (flowerbed[i - 1] == 0)
                empty_right = (i == length - 1) or (flowerbed[i + 1] == 0)

                # If both sides are empty, we can plant a flower here
                if empty_left and empty_right:
                    flowerbed[i] = 1  # Plant the flower
                    count += 1  # Increment the counter

                    # Optional: Early exit if we already planted enough
                    if count >= n:
                        return True

        # After checking all spots
        return count >= n

# ✅ Test the solution
sol = Solution()

# Example test cases
flowerbed = [1, 0, 0, 0, 1]
n = 1
print("Can place flowers:", sol.canPlaceFlowers(flowerbed, n))  # Output: True

flowerbed = [1, 0, 0, 0, 1]
n = 2
print("Can place flowers:", sol.canPlaceFlowers(flowerbed, n))  # Output: False
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Can place flowers: True
Can place flowers: False
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