**Problem #1646: Get Maximum in Generated Array (Easy)**

<https://leetcode.com/problems/get-maximum-in-generated-array/description/>

**My Solution:**

1. If n is 0, then return 0.
2. If n is 1, then return 1.
3. Initialize nums to a list containing 0 and 1.
4. Iterate with I from range of 2 to (n + 1).

If I is even, then append to nums the element of nums at index I divided by 2 (integer division).

If I is odd, then append the sum of the nums at index I divided by 2 and the next element in nums.

1. Return max of nums.

class Solution:

def getMaximumGenerated(self, n: int) -> int:

if n == 0:

return 0

if n == 1:

return 1

nums = [0, 1]

for i in range(2, n + 1):

if i % 2 == 0:

nums.append(nums[i // 2])

else:

nums.append(nums[i//2] + nums[(i//2) + 1])

return max(nums)