3) [**Get Maximum in Generated Array Leetcode Solution**](https://www.tutorialcup.com/leetcode-solutions/get-maximum-in-generated-array-leetcode-solution.htm)

**The problem Get Maximum in Generated Array Leetcode Solution provided us with a single integer. With the given single**[**integer**](https://www.tutorialcup.com/java/data-types-in-java.htm)**, we need to find the maximum integer in the generated array. The array generation has some rules. Under the imposed constraints, we need to find the maximum integerthat could have been generated. The rules are:**Text, letter

Description automatically generated

input

n = 7

output

3

Explanation: According to the given rules:  
nums[0] = 0, nums[1] = 1  
nums[(1 \* 2) = 2] = nums[1] = 1  
nums[(1 \* 2) + 1 = 3] = nums[1] + nums[2] = 1 + 1 = 2  
nums[(2 \* 2) = 4] = nums[2] = 1  
nums[(2 \* 2) + 1 = 5] = nums[2] + nums[3] = 1 + 2 = 3  
nums[(3 \* 2) = 6] = nums[3] = 2  
nums[(3 \* 2) + 1 = 7] = nums[3] + nums[4] = 2 + 1 = 3

So, we can see nums = [0,1,1,2,1,3,2,3], and the maximum is 3 among them. Thus the answer is 3.