374. Guess Number Higher or Lower   Add to List ▾

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Total Accepted: **35121**   Total Submissions: **104508**   Difficulty: **Easy**   Contributors: **Admin**

We are playing the Guess Game. The game is as follows:

I pick a number from **1** to **n**. You have to guess which number I picked.

Every time you guess wrong, I'll tell you whether the number is higher or lower.

You call a pre-defined API `guess(int num)` which returns 3 possible results (`-1`, `1`, or `0`):

```
-1 : My number is lower
 1 : My number is higher
 0 : Congrats! You got it!
```

Example:

```
n = 10, I pick 6.

Return 6.
```

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Python ▾   ⟳   </>

```python
# The guess API is already defined for you.
# @param num, your guess
# @return -1 if my number is lower, 1 if my number is higher, otherwise return 0
# def guess(num):

class Solution(object):
    def guessNumber(self, n):
        """
        :type n: int
        :rtype: int
        """
        low,high=1,n
        mid=0
        while low<high:
            mid=(low+high)//2
            if guess(mid)==1:
                low=mid+1
            else:
                high=mid
        return low
```

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