

374. Guess Number Higher or Lower

Easy



637



2118



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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 will tell you whether the number I picked is higher or lower than your guess.

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

- `-1` : The number I picked is lower than your guess (i.e. `pick < num`).
- `1` : The number I picked is higher than your guess (i.e. `pick > num`).
- `0` : The number I picked is equal to your guess (i.e. `pick == num`).

Return *the number that I picked*.

Example 1:

Input: $n = 10$, $\text{pick} = 6$

Output: 6

Example 2:

Input: $n = 1$, $\text{pick} = 1$

Output: 1

Example 3:

Input: $n = 2$, $\text{pick} = 1$

Output: 1

Example 4:

Input: $n = 2$, $\text{pick} = 2$

Output: 2

Constraints:

- $1 \leq n \leq 2^{31} - 1$
- $1 \leq \text{pick} \leq n$

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