75 Days of Code
Day 53
Problem no : 374.
Problem Title : Guess Number Higher or Lower
Problem type : Binary Search

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 three possible results:

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

Example 1:

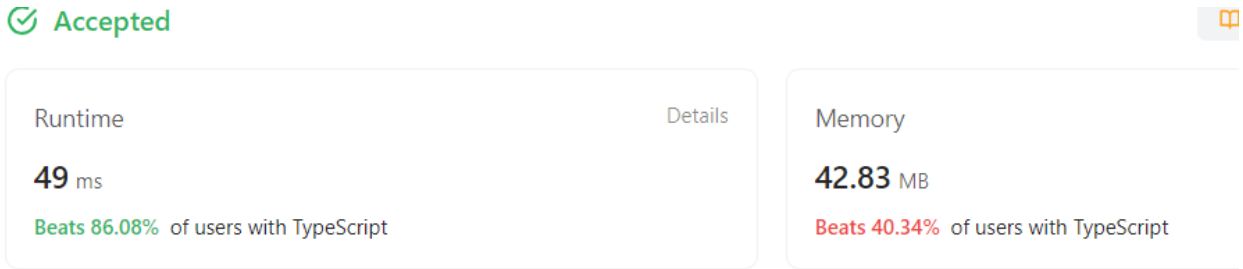
Input: n = 10, pick = 6
Output: 6
Example 2:

Input: n = 1, pick = 1
Output: 1
Example 3:

Input: n = 2, pick = 1
Output: 1

```typescript
function guessNumber(n: number): number {
    let start =0;
    let end = n;
    while(start<=end){
        let mid =Math.floor( start +(end-start)/2);
        if(guess(mid)===0){
            return mid;
        }else if(guess(mid)<0){
            end= mid-1;
        }else{
            start=mid+1;
        }
    }
    return -1;

};
```



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