75 Days of Code

**Day 53** 

Problem no: 374.

**Problem Title: Guess Number Higher or Lower** 

**Problem type : Binary Seacrh** 

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:

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Input: n = 2, pick = 1

Output: 1

```
function guessNumber(n: number): number {
      let start =0;
     let end = n;
      while(start<=end){</pre>
          let mid =Math.floor( start +(end-start)/2);
          if(guess(mid)===0){
               return mid;
          }else if(guess(mid)<0){</pre>
               end= mid-1;
          }else{
               start=mid+1;
      return -1;
 };
⊘ Accepted
                                                                                       Ф
  Runtime
                                                Details
                                                           Memory
 49 ms
                                                           42.83 MB
 Beats 86.08% of users with TypeScript
                                                           Beats 40.34% of users with TypeScript
```