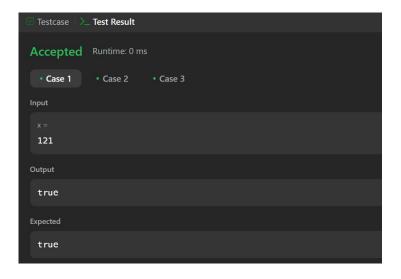
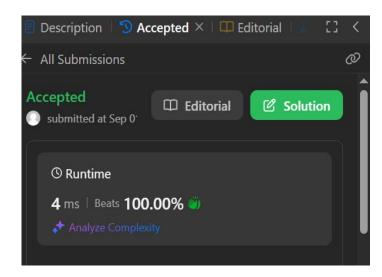
WEEK 1 OF MY 100-DAY DSA CHALLENGE COMPLETED!

I'm excited to share that I've successfully completed the first 7 days of my 100-day Data Structures and Algorithms (DSA) challenge on LeetCode. Each day, I've tackled a new problem using Java, and it's been an incredible learning experience so far. Here are the problems I've solved this week:

Problem 1:Palindrome Number(Day-1)

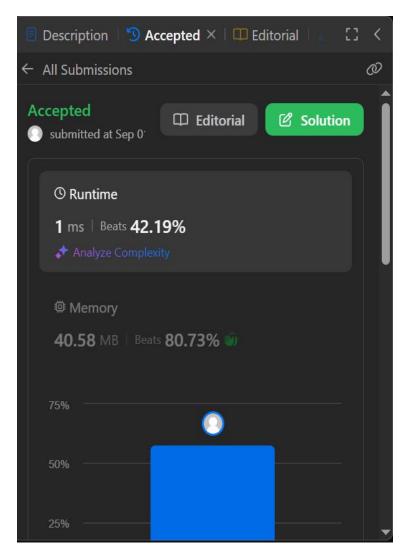
```
Code
Java 🗸 🔒 Auto
      class Solution {
          public boolean isPalindrome(int x) {
              int n=x;
              int reveNumber=0;
              int rem=0;
              if(n<0){
                   return false;
              while(n!=0){
  10
  11
                   rem=n%10;
  12
                   reveNumber=reveNumber*10 + rem;
                  n=n/10;
 13
              }
  15
              if(x==reveNumber){
 17
                 return true;
              }else{
                   return false;
 21
  22
```





Problem 2: Power of two(Day-2)

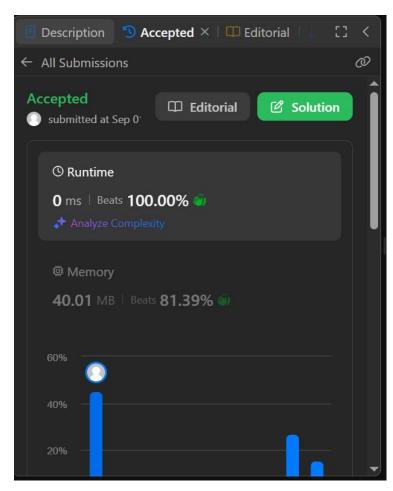
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6
      ► Problem List 〈
                           > > 3
Code
Java ∨
       Auto
     class Solution {
  1
         public boolean isPowerOfTwo(int n) {
             if(n<1){
                 return false;
             }else if(n==1){
                 return true;
             }else if((n & n-1)==0){
                 return true;
             else{
                 return false;
```

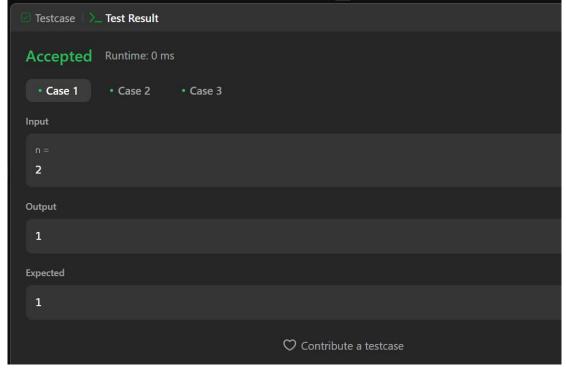




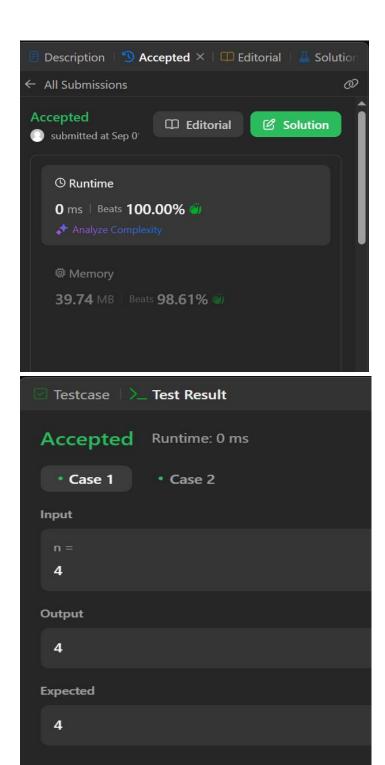
Problem 3: Fibonacci Number (Day-3)

```
</>Code
Java ∨ 🔒 Auto
      class Solution {
          public int fib(int n) {
              int a=0;
              int b=1;
              int temp=0;
                   if(n==0){
                      return a;
                   else if(n==1){
                       return b;
  12
                   for(int i=0; i<=n-2; i++){
                      temp=a+b;
                       a=b;
                       b=temp;
                   return b;
```





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      Problem List
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</>Code
Java ∨ 🔒 Auto
     class Solution {
          public int tribonacci(int n) {
              int fstNum=0;
              int secNum=1;
              int thrdNum=fstNum + secNum;
              int temp;
              if(n==fstNum){
                  return fstNum;
               else if(n==secNum){
                 return secNum;
              else if(n==thrdNum){
                  return thrdNum;
              for(int i=fstNum;i<=n-3;i++){</pre>
                  temp=thrdNum + secNum + fstNum;
                  fstNum=secNum;
       for(int i=fstNum;i<=n-3;i++){</pre>
           temp=thrdNum + secNum + fstNum;
           fstNum=secNum;
           secNum=thrdNum;
           thrdNum=temp;
       return thrdNum;
```

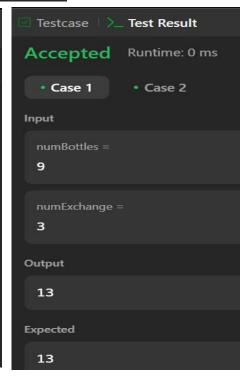


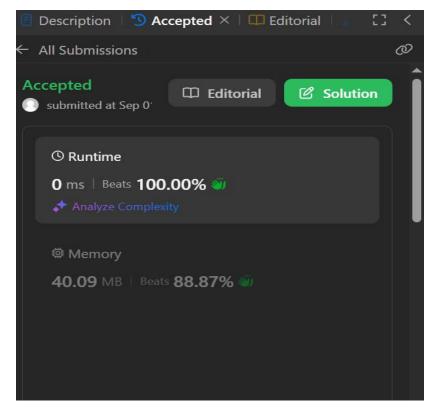
Problem 5: Water Bottels(Day-5)

There are numBottles water bottles that are initially full of water. You can exchange numExchange empty water bottles from the market with one full water bottle.

The operation of drinking a full water bottle turns it into an empty bottle.

Given the two integers numBottles and numExchange, return the maximum number of water bottles you can drink.





Problem 6: Two Sum(Day-6)

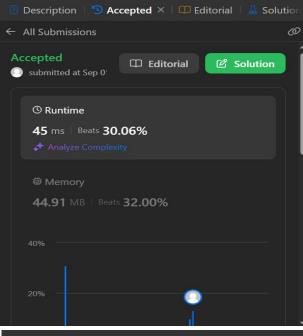
Given an array of integers nums and an integer target, return indices of the two numbers such that they add up to target.

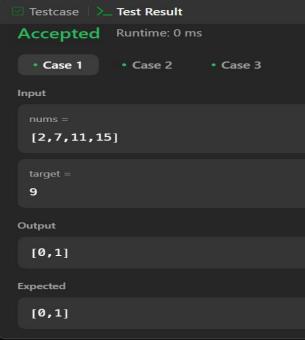
You may assume that each input would have exactly one

solution, and you may not use the *same* element twice.

You can return the answer in any order.

```
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      ► Problem List 〈 〉 ☆
</>Code
Java V
        Auto
      class Solution {
   1
          public int[] twoSum(int[] nums, int target) {
               int result[]=new int[2];
               for(int i=0;i<nums.length;i++){</pre>
                   for(int j=i+1;j<nums.length;j++){</pre>
                       if(nums[i] + nums[j] == target){
  10
  11
  12
                           result[0]=i;
                           result[1]=j;
  13
                           return result;
  14
  15
  17
  19
  20
               return result;
  21
          public static void main(String[]arg){
  22
```





Problem 7: Add to Array-Form of Integer(Day-7)

