Example 2:

Input: n = 4

Output: "1211"

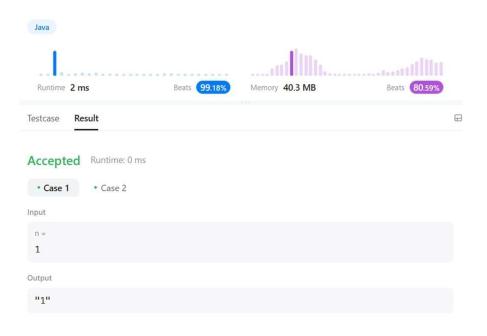
Experiment- 2.3

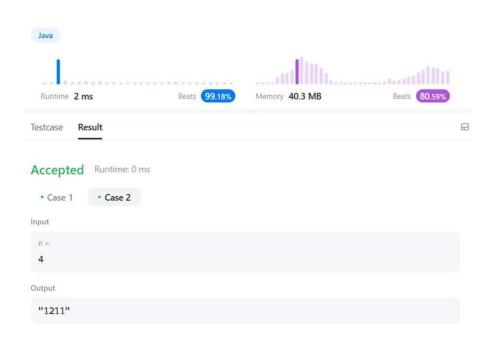
Experiment- 2.3	
Student Name: Jatin	UID: 20BCS5951
Branch: BE CSE	Section/Group: NTPP_605-B
Semester: 6 th	Subject Code: 20CSP-351
Subject Name: CC Lab	
Aim: To demonstrate the concept of Count and say https://leetcode.com/prob Given a binary tree, determine if it is Given a positive integer n, return the n th term	s height-balanced.
Example 1:	
Input: n = 1	
Output: "1"	
Explanation: This is the base case.	

Code:

```
class Solution {    public String Count(String s){
                                         int cnt = 1; char ch =
s.charAt(0);
   StringBuilder curr = new StringBuilder();
                                          for(int
i=1;i<s.length();i++){
                      if(s.charAt(i)==ch){
                                                cnt++;
} else{
               curr.append(cnt);
curr.append(ch);
                ch = s.charAt(i);
                                         cnt = 1;
     } curr.append(cnt);
curr.append(ch);
               return curr.toString();
 }
 public String countAndSay(int n) {
String s
= "1";
        for(int i=1;i<n;i++){</pre>
                                s =
}
}
```

Output:







Problem 2: Water and Jug Problem https://leetcode.com/problems/water-and-jugproblem/

Probem2: Water and Jug Problem

You are given two jugs with capacities jug1Capacity and jug2Capacity liters. There is an infinite amount of water supply available. Determine whether it is possible to measure exactly targetCapacity liters using these two jugs.

If targetCapacity liters of water are measurable, you must have targetCapacity liters of water contained within one or both buckets by the end.

Operations allowed:

- Fill any of the jugs with water.
- Empty any of the jugs.
- Pour water from one jug into another till the other jug is completely full, or the first jug itself is empty.

Example 1:

Input: jug1Capacity = 3, jug2Capacity = 5, targetCapacity = 4

Output: true

Explanation: The famous **Die Hard** example

Example 2:

Input: jug1Capacity = 2, jug2Capacity = 6, targetCapacity = 5

Output: false

Example 3:

Input: jug1Capacity = 1, jug2Capacity = 2, targetCapacity = 3

Output: true

```
Code:
class Solution {
    public boolean canMeasureWater(int jug1Capacity, int jug2Capacity, int targetCapacity)
    {
        return targetCapacity == 0 || jug1Capacity + jug2Capacity >= targetCapacity && targetCapacity %
        gcd(jug1Capacity, jug2Capacity) == 0;
    }        private int gcd(int a,
    int b)
    {
        return b == 0 ? a : gcd(b, a
        % b);
    }
}
```

Output:

