75 Days of Code
Day 67
Problem no : Leetcode 338
Problem Title : Counting Bits
Problem type : Bit manipulation

Given an integer n, return an array ans of length n + 1 such that for each i (0 <= i <= n), ans[i] is the number of 1's in the binary representation of i.

Example 1:

Input: n = 2
Output: [0,1,1]
Explanation:
0 --> 0
1 --> 1
2 --> 10
Example 2:

Input: n = 5
Output: [0,1,1,2,1,2]
Explanation:
0 --> 0
1 --> 1
2 --> 10
3 --> 11
4 --> 100

5 --> 101

Constraints:

0 <= n <= 105

```typescript
function countBits(n: number): number[] {
    let ans =[];
        for(let num =0;num<n+1;num++){
            let temp = num;
            let count =0;
            while(temp){
                if (temp & 1) {
                    count++;
                }
                temp = temp >> 1;
                console.log("temp=",temp)
            }
            ans.push(count)
        }
        return ans;
    };
```