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## **Leetcode May Challenge DAY: 28**

### **1. Python**

---

class Solution:

```
def countBits(self, num: int) -> List[int]:  
    answer = [0]  
    for i in range(1, num+1):  
        answer.append(answer[i>>1] + int(i&1))  
    return answer
```



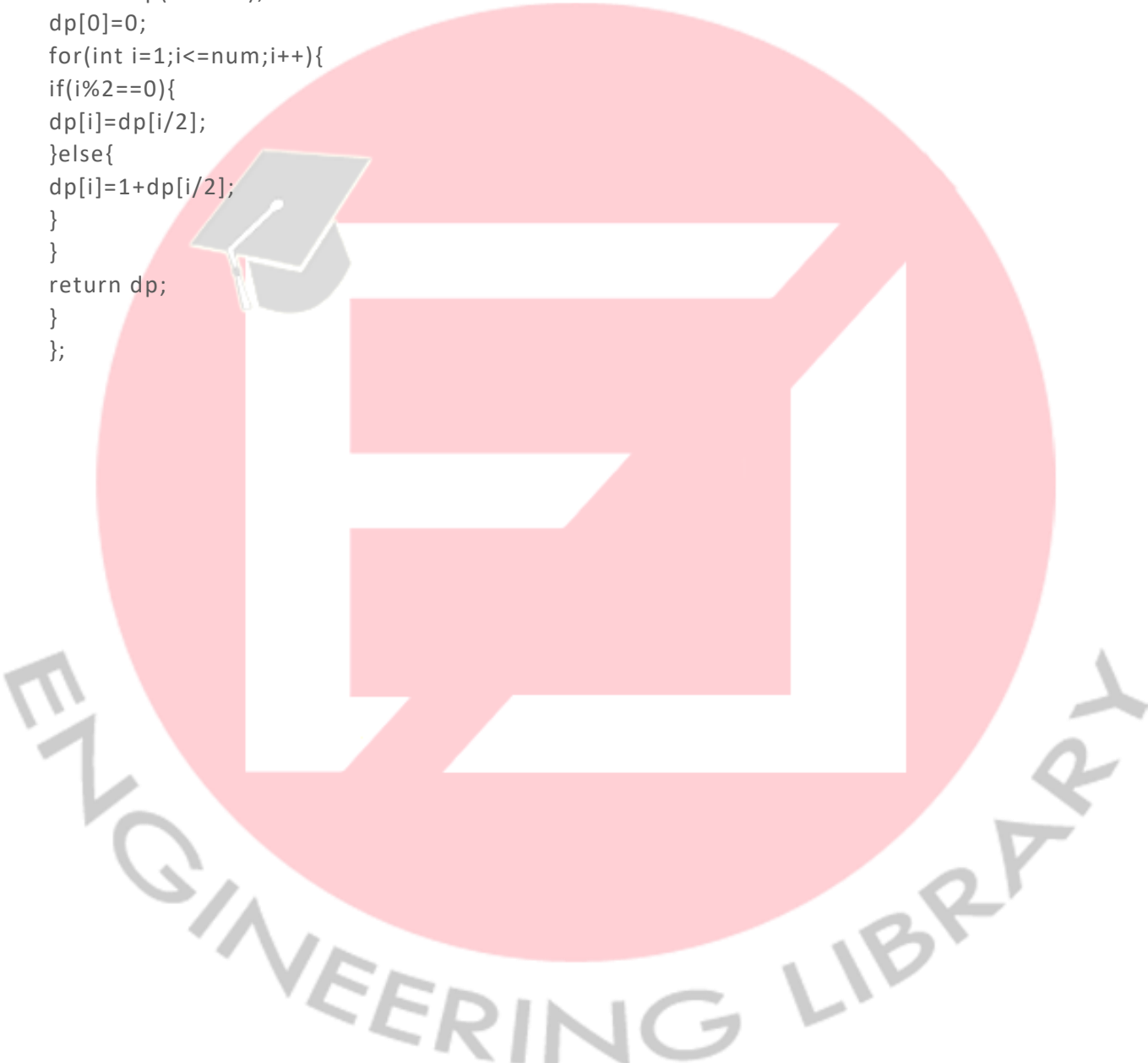
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## 2. C++

---

```
class Solution {  
public:  
    vector countBits(int num) {  
        vector dp(num+1);  
        dp[0]=0;  
        for(int i=1;i<=num;i++){  
            if(i%2==0){  
                dp[i]=dp[i/2];  
            }else{  
                dp[i]=1+dp[i/2];  
            }  
        }  
        return dp;  
    }  
};
```



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### 3. JAVA

---

```
public int[] countBits(int num) {  
    int[] count = new int[num + 1];  
    int diff = 1;  
    for (int i = 1; i <= num; i++) {  
        if (i / diff > 1) {  
            diff *= 2;  
        }  
        count[i] = 1 + count[i - diff];  
    }  
    return count;  
}
```