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## **Leetcode May Challenge DAY: 04**

### **1. Python**

---

class Solution:

```
def findComplement(self, num: int) -> int:
```

```
    mask = 1
```

```
    while mask < num:
```

```
        mask = (mask << 1) + 1
```

```
    return num ^ mask
```



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## 2. C++

---

```
int findComplement(int num) {  
    int x = 1;  
    while(num > x)  
        x = x*2+1;  
    return x- num;  
}
```



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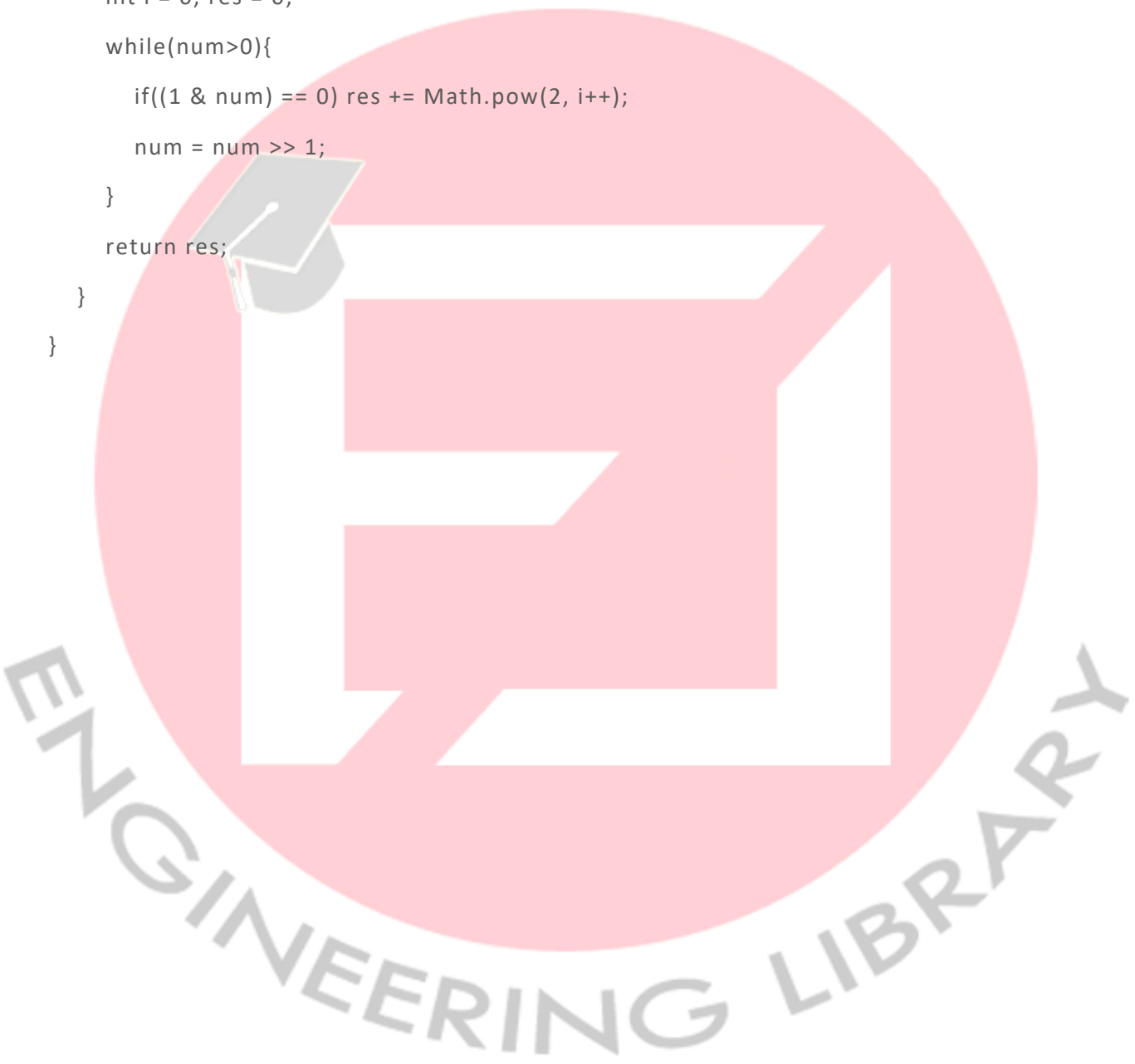
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### 3. JAVA

---

```
class Solution {  
    public int findComplement(int num) {  
        int i = 0, res = 0;  
        while(num>0){  
            if((1 & num) == 0) res += Math.pow(2, i++);  
            num = num >> 1;  
        }  
        return res;  
    }  
}
```



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