

reverse bit

```
class Solution:
    def reverseBits(self, n: int) -> int:
        res=0
        for i in range(32):
            res=(res<<1) | (n&1)
            n=n>>1
        return res
```

number of 1 bits

```
class Solution:
    def hammingWeight(self, n: int) -> int:
        count=0
        while n>0:
            if n&1:
                count+=1
            n=n>>1
        return count
```