**Number of 1 Bits :-**

Easy Accuracy: 76.5% Submissions: 98K+ Points: 2

Given a positive integer N, print count of set bits in it.

**Example 1:**

**Input:**

N = 6

**Output:**

2

**Explanation:**

Binary representation is '110'

So the count of the set bit is 2.

**Example 2:**

**Input:**

8

**Output:**

1

**Explanation:**

Binary representation is '1000'

So the count of the set bit is 1.

**Your Task:**    
You don't need to read input or print anything. Your task is to complete the function **setBits**() which takes an Integer N and returns the count of number of set bits.

**Expected Time Complexity:** O(LogN)  
**Expected Auxiliary Space:** O(1)

**Constraints:**  
1 ≤ N ≤ 109

**Code :-**

//{ Driver Code Starts

#include <bits/stdc++.h>

using namespace std;

// } Driver Code Ends

class Solution {

public:

int setBits(int N) {

// Write Your Code here

int count=0;

while(N){

if((N & 1) == 1)

++count;

N = N >> 1;

}

return count;

}

};

//{ Driver Code Starts.

int main() {

int t;

cin >> t;

while (t--) {

int N;

cin >> N;

Solution ob;

int cnt = ob.setBits(N);

cout << cnt << endl;

}

return 0;

}

// } Driver Code Ends

**T.C :- O(1)**

**S.C :- O(1)**