```java
import java.util.*;
import java.lang.*;
import java.io.*;

class Main
{
 public static void main (String[] args)
 {
  Scanner input=new Scanner(System.in);
  int test=input.nextInt();
  for(int i=0;i<test;i++)
  {
     int N=input.nextInt();
     int count=0;
     while(N!=1)
     {
     if(N%2!=0)
        count++;
        N=N/2;
     }
     System.out.println(count);
  }
 }
}
```