**Check if divisible by 4**

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Given a number n, the task is to check if a number is divisible by 4 or not. The input number may be large and it may not be possible to store even if we use long long int.

Examples:

Input : n = 1124

Output : 1

Input : n = 1234567589333862

Output : 0

**Input:**  
The first line of input contains an  integer T denoting the no of test cases. Then T test cases follow. Each test case contains an number n.  
  
**Output:**  
For each test case in a new line print 1 if n is divisible by 4 else print 0.  
  
**Constraints:**  
1<=T<=100  
1<=n<=10^100+5  
  
**Example:  
Input:**  
2  
1124  
1234567589333862  
**Output:**  
1  
0

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/check-if-divisible-by-4/0>

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\*/

package javaapplication245;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.Arrays;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication245 {

/\*\*

\* @param args the command line arguments

\*/

static int factorial(int n) {

int prod = 1;

for(int i =2; i<=n; i++) {

prod\*=i;

}

return prod;

}

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

String n = br.readLine().trim();

if(n.length()>=2) {

String ultimos = n.substring(n.length()-2);

if(Integer.parseInt(ultimos)%4 ==0) {

System.out.println(1);

}else{

System.out.println(0);

}

}

else{

if(Integer.parseInt(n)%4 ==0) {

System.out.println(1);

}else{

System.out.println(0);

}

}

//System.out.println(ultimos);

}

}

}