**Check if a number can be expressed as x^y**

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Given a positive integer n, find if it can be expressed as xy where y > 1 and x > 0 and x and y both are both integers.  
  
**Input:**  
The first line of input contains an integer T denoting the no of test cases. Then T test cases follow . Each test cases contains an integer N.  
  
**Output:**  
For each test case in a new line print 1 if the number can be expressed as  xy else print 0.  
  
**Constraints:**  
1<=T<=1000  
1<=n<=100  
  
**Example:  
Input:**  
2  
8  
5  
**Output:**  
1  
0

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

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/\*

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package javaapplication241;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.HashSet;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication241 {

/\*\*

\* @param args the command line arguments

\*/

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) {

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

if(n == 1) {

System.out.println(1);

continue;

}

int power =0;

int ans = 0;

for(int i = 1; i<n; i++) {

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

power =(int) Math.pow(i, j);

if(power == n) {

ans = 1;

break;

}

}

}

System.out.println(ans);

}

}

----------solución óptima-------------

<http://www.geeksforgeeks.org/check-if-a-number-can-be-expressed-as-xy-x-raised-to-power-y/>

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