## Jutge.org

The Virtual Learning Environment for Computer Programming

## The lightest pearl

P11914_en
"Given eight identical pearls, except for one that is a little lighter, how do you find which one is the lightest pearl with only two weighings?"
This is the last problem that the seven sages put to Beremiz, who solved the problem easily.

## Input

Input consists of several cases, each with a natural number $p$ between 1 and $10^{9}$.

## Output

For every case, print the minimum number of the weighings to identify with certainty, given $p$ identical pearls, except for one that is a little lighter, which is the lightest pearl. Suppose that the scale can only compare the weight of two groups with the same (arbitrarily large) number of pearls.

## Sample input <br> 8 <br> 10 <br> 1 <br> Sample output <br> 2 3 <br> 3 0

## Problem information

Author: Salvador Roura
Translator: Salvador Roura
Generation : 2024-04-30 15:21:39
© Jutge.org, 2006-2024.
https://jutge.org

