

## Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

November 28-December 5

Find how many positive integers  $n$  satisfy that

$$\left\lfloor \frac{n}{99} \right\rfloor = \left\lfloor \frac{n}{101} \right\rfloor.$$

**Note:**  $\lfloor x \rfloor$  indicates the greatest integer less than or equal to  $x$ .  
For example  $\lfloor 3.7 \rfloor = 3$  and  $\lfloor 1/4 \rfloor = 0$ .

---

This contest is sponsored by the Mathematics Department. Open to all CSUN students.  
Winner gets \$5 or an equivalent prize. All complete and correct solutions get a certificate.  
Type and send your solution before December 5th, 9:00PM to [bernardo.abrego@csun.edu](mailto:bernardo.abrego@csun.edu).  
All steps of the solution must be clearly justified.  
For rules, winners, solutions, and more information visit: [www.csun.edu/math/probweek](http://www.csun.edu/math/probweek)