

I U P U I  
MATH CLUB TEASER #65

September 16, 2011  
(due September 23, 2011)

The number 1331 is a *palindrome*, meaning that it reads the same from left to right as from right to left. It is also a cube number because  $11^3 = 1331$  (so 11 is the *cube root* of 1331).

Find the smallest palindrome whose cube root is not a palindrome.

The IUPUI Math Club invites everybody to submit solutions to its weekly recreational mathematics problem. Interested individuals and teams of up to four participants can submit written solutions. At the end of the semester, prizes will be distributed among the IUPUI undergraduate teams that submit the most correct solutions. Solutions are due one week after each problem is posted, and should be faxed to (317) 274-3460, dropped off in person at LD 270, or sent by campus or U.S. mail to:

**Math Club Teaser**  
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