

UIUC Department of Mathematics

PROBLEM OF THE WEEK
November 9, 2005

Decimal and binary digits

Show that, for each positive integer n there exists a unique positive integer whose decimal representation has exactly n digits, each either 1 or 2, and whose binary representation ends in n zeros.

PROBLEM OF THE WEEK ARCHIVE

<http://www.math.uiuc.edu/~hildebr/pow>