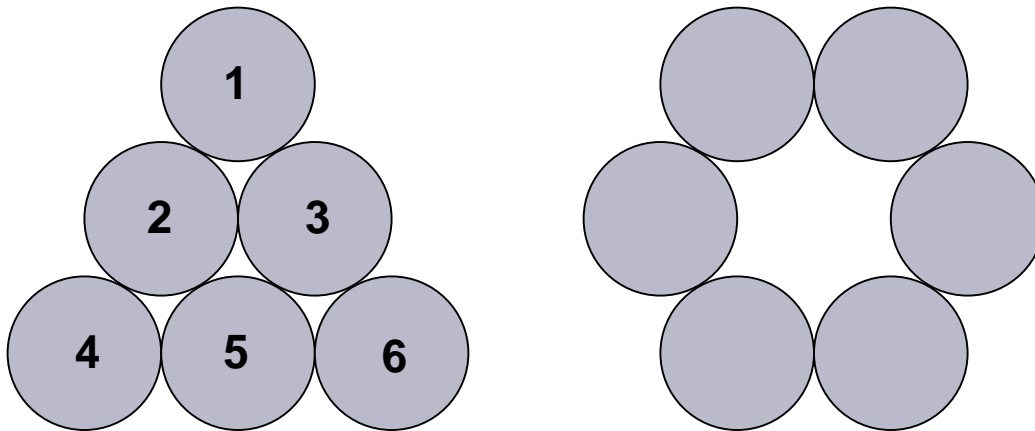


I U P U I
MATH CLUB TEASER #25

September 4, 2009
(due September 11, 2009)

Six quarters are arranged in a triangular shape as shown on the left. The problem is to move them into the shape on the right in the smallest number of moves. Each move consists of sliding a coin (without disturbing any others) to a new position in which it touches two other coins. The coins must remain flat on the table at all times.



The IUPUI Math Club invites everybody to submit solutions to its weekly recreational mathematics problem. Interested individuals and teams of up to four participants must submit a cover sheet (available at jagmath.usg.iupui.edu) together with their written solution. At the end of the semester, every IUPUI student that sent a correct solution will receive a certificate of merit. 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
Dept. of Mathematical Sciences
IUPUI, LD-270
402 N. Blackford Street
Indianapolis, IN 46202