

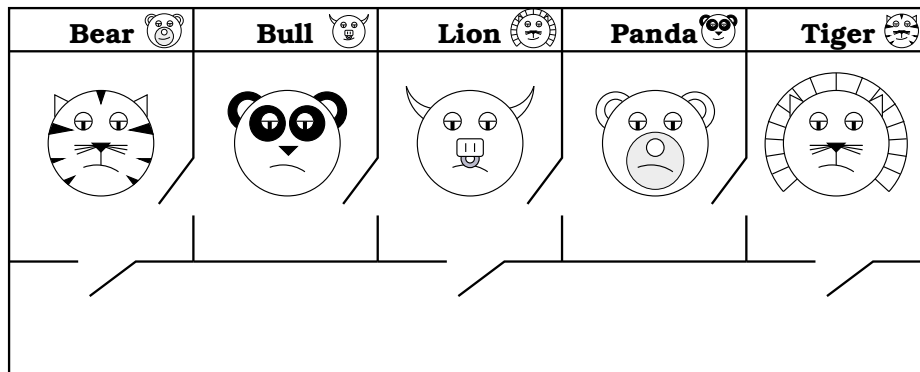
I U P U I

MATH CLUB TEASER #26

September 11, 2009
(due September 18, 2009)

The keeper at the IUPUI zoo found all the animals accommodated in the wrong places. The sign above each cage indicates where each animal should be, but the tiger is in the bear's cage; the panda in the bull's cage; the bull in the lion's cage; the bear in the panda's cage; and the lion in the tiger's cage.

To move the animals into their proper cages the keeper can use the safety enclosure at the bottom of the picture, but since these are all ferocious beasts (the panda is really nasty), no two can be allowed to be together. The shortest solution has 16 moves. Can you find it?



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
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 IUPUI, LD-270
 402 N. Blackford Street
 Indianapolis, IN 46202