

I U P U I
MATH CLUB TEASER #48

September 24, 2010
(due October 1, 2010)

There are three people, Alex, Brook, and Cody. One of them is a knight, one is a knave, and one is a spy. The knight always tells the truth, the knave always lies, and the spy can either lie or tell the truth.

Alex says: "Cody is a knave."

Brook says: "Alex is a knight."

Cody says: "I am the spy."

Who is the knight, who the knave, and who the spy?

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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