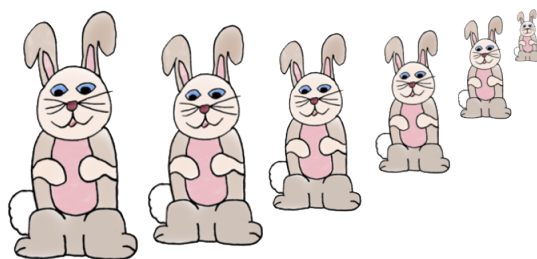# MATH CHALLENGE PROBLEM

for late March 2016

Magic Bunny Power

To celebrate the spring equinox, your mother gave you a chocolate bunny. But this is a *magic* bunny. On the first night, the bunny either disappears or splits into two identical magic bunnies, with equal probability. The next night, if you have two bunnies, they each (independently) either disappear or split in two. And so it continues, each night any remaining bunnies each independently either disappear or split into two bunnies.

The Challenge: What is the probability that you will eventually be left with no magic bunnies?

Submit solutions to Ross 2239G or `oscar.levin@unco.edu` by **Monday, April 4**.

The best solution WIN A PRIZE!
Prizes include nifty Rubik's style puzzle cubes, math puzzle books, math games, even a math coloring book. So submit your answer TODAY!