

Problem of the Week #3 $_{\rm (Spring \ 2019)}$

Find all integers k for which $0 \le k \le 99$ and $\binom{99}{k}$ is not divisible by 3.

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, February 13, 2019.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck! You can always see the Problem of the Week (and complete rules) online at:

http://uwpmath.weebly.com/