

Problem of the Week #2 (Spring 2017)

Let N be a positive integer. Our job is to pick integers $1 = a_1 < a_2 < \cdots < a_{10} = N$, satisfying $a_k \ge a_{k-1} + k$ for $2 \le k \le 10$. In how many different ways can we do this job?

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, February 8, 2017.

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/