## 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 $a_{k} \geq a_{k-1}+k$ for $2 \leq k \leq 10$. 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/

