MATH CHALLENGE

of the EKU Math Club

MC8

Without the use of a computer or calculator, find the sum of the digits of N, where

$$N = 9 + 99 + 999 + \ldots + \underbrace{999\ldots9}_{999 \text{ digits}}.$$

Submissions due: 12:00pm, December 2, 2019

Submit solutions to Wallace 410 or to Atilla.Sit@eku.edu (PDF only).

Solutions must include all supporting work.

Top solvers will be recognized.