Write a program to find the sum of the digits in the decimal representation of a given natural number.

After trying the question, scroll down to the solution.
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\[ R \equiv s' = \sum_{i: \text{nat}} \mod (\div n 10^i) 10 \]
\[ Q \equiv s' = s + \sum_{i: \text{nat}} \mod (\div n 10^i) 10 \]

\[ R \leftarrow s := 0. \quad Q \]
\[ Q \leftarrow \text{if } n=0 \text{ then } \text{ok } \text{ else } s := s + \mod n 10. \quad n := \div n 10. \quad Q \text{ fi} \]