Let \( x_0, x_1, x_2, \ldots \) be the sequence such that \( x_0 = 1 \) and for \( n \geq 0 \),

\[
x_{n+1} = \ln(e^{x_n} - x_n),
\]

where \( \ln \) denotes the natural logarithm function. Find the value of \( x_0 + x_1 + x_2 + \cdots \).

Solutions for this problem can be submitted to Dr. Brian Miceli at bmiceli@trinity.edu. People who submit solutions will be acknowledged on the next problem. If you like these problems, you may be interested in the Putnam Exam, and more information on the Putnam Exam may be found [HERE](#).

Solutions to the previous problem were submitted by Ziad Aramouni (Lebanon), Colin Bown (Austin, TX), M.V. Channakeshava (India), Ritwik Chaudhuri (India), Ruben Victor Cohen (Argentina), Evan Fu (Beaverton, OR), Rob Hill (Gambrills, MD), Kipp Johnson (Beaverton, OR), Hari Kishan (India), Tengiz Kutchava (Georgia, the country), Yann Michel (Paris, France), and François Seguin (Amiens, France).