CSci 340, Spring 2003, Assignment 6

This assignment is due Friday, May 2, at 4:00pm. You should submit your solution both electronically (using “handin cs 340 6”) and to my office (using paper).

Your job in this assignment is to write a program that reads an integer \( n \) from the user, then reads \( n \) more integers, and then prints the sum of these \( n \) integers.

This program prints 99 because \( 23 + 42 + 34 = 99 \).

You can type “getcs 340 6” to fetch template code for this lab. This template code includes the readInteger function, which returns an \( \text{IO Integer} \) wrapping an integer read from the user.

\[
\text{readInteger :: IO Integer} \\
\text{readInteger = getLine >>=} (\text{return . read})
\]

A correct solution must include a \text{main} function of the \( \text{IO ()} \) type.

**Suggestion:** Write two functions:

\[
\text{readNums :: Integer -> IO Integer} \\
\text{main :: IO ()}
\]

The \text{readNums} function takes a parameter \( n \) and returns an \( \text{IO} \) value wrapping the sum of \( n \) numbers read from the user. The \text{main} function performs the overall assignment.