module Main where

import Text.Read -- this gives access to readMaybe

main :: IO ()
main = do
  putStrLn "Welcome to the calculator!
  putStr "What operation would you like to perform? (+, -, *, /) "
  op <- getLine
  arg1 <- getLine
  arg2 <- getLine
  let m_arg1 = readMaybe arg1
  let m_arg2 = readMaybe arg2
  result = performOperation op m_arg1 m_arg2
  putStrLn result
  putStrLn "Good-bye."

-- performOperation :: String          -- the operator
  -> Maybe Integer   -- argument #1
  -> Maybe Integer   -- argument #2
  -> String
  performOperation "+" (Just a1) (Just a2) = show (a1 + a2)
  performOperation "-" (Just a1) (Just a2) = show (a1 - a2)
  performOperation "/" (Just a1) (Just a2) = show (a1 \ 'div'\ a2)
  performOperation _ _ _ = "Invalid inputs"