module Main where

import Text.Read -- this gives access to reads

main :: IO ()
main = do
  putStrLn "Welcome to the calculator!"
  putStrLn "What operation would you like to perform? (+, -, *, /)"
  op <- getLine

  putStrLn "First operand: ", arg1 <- getLine
  putStrLn "Second operand: ", arg2 <- getLine

  result = performOperation op m_arg1 m_arg2
  putStrLn result

-- If all the arguments are valid, performs the operation requested.

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 * a2)
performOperation '/' (Just a1) (Just a2) = show (a1 `div` a2)
performOperation _ _ _ = "Invalid inputs"