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
  putStrLn "First operand: 
  arg1 <- getLine
  putStrLn "Second operand: 
  arg2 <- getLine
  putStrLn "Performing operation: 
  putStrLn (performOperation op m_arg1 m_arg2)

performOperation :: String -> Maybe Integer -> Maybe Integer -> String
performOperation o (Just a1) (Just a2) = show (a1 + a2)
performOperation o (Just a1) (Just a2) = show (a1 - a2)
performOperation o (Just a1) (Just a2) = show (a1 * a2)
performOperation o (Just a1) (Just a2) = show (a1 'div' a2)
performOperation _ _ _ = "Invalid inputs"

-- If all the arguments are valid, performs the operation requested.
-- Otherwise, returns an error string.
-- performOperation :: String -> Maybe Integer -> Maybe Integer -> String