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-- Model solution for Lab07, Ex 1, Part b
--
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module Main
where

-- count the number of vowels
--
countVowels    :: String -> Int
countVowels str = length (filter isVowel str)
  where
    isVowel    :: Char -> Bool
    isVowel c  = isUpperVowel (toUpper c)
      --
    isUpperVowel :: Char -> Bool
    isUpperVowel c = c == 'A'
                  || c == 'E'
                  || c == 'I'
                  || c == 'O'
                  || c == 'U'

main :: IO ()
main = do
  putStrLn "Enter a line of text:"
  text <- getLine
  putStrLn ("There are " ++ show (countVowels text)
           ++ " vowels in this text.")

```