1

main::IO ()

fat::Int->Int

fat n

|n == 0 = 0

|otherwise = n + fat(n-1)

main = do

putStrLn ("Numero")

n<-readLn

putStrLn ("Fatorial = "++show (fat n))

2

main :: IO ()

numDigito :: Float -> Float

numDigito n

| n < 10 && n >= 0 = 1

| otherwise = 1 + numDigito (n / 10)

main = do

putStrLn ("\nDigite um numero.")

n <- readLn

putStrLn ("\nQuantidade de digitos: " ++ show (numDigito n))

3.

main :: IO()

mdc :: Int -> Int -> Int

mdc n1 n2

| mod n1 n2 == 0 = n2

| mod n2 n1 == 0 = n1

| n1 > n2 = mdc n2 (mod n1 n2)

| n1 < n2 = mdc n1 (mod n2 n1)

main = do

putStrLn ("\nDigite o primeiro numero.")

n1 <- readLn

putStrLn ("\nDigite o segundo numero.")

n2 <- readLn

putStrLn ("\nMaximo divisor comum: " ++ show (mdc n1 n2))

4

main :: IO()

potencia:: Float -> Float -> Float

potencia a b

| b == 0 = 1

| b > 0 = a \* potencia a (b-1)

| b < 0 = 1/potencia a (-b)

main = do

putStrLn ("\nDigite o primeiro numero.")

a <- readLn

putStrLn ("\nDigite o segundo numero.")

b <- readLn

putStrLn ("\nMaximo divisor comum: " ++ show (potencia a b))