Assignment 2 Evidence Document

Problem 1)

```
*Main> superpow 3
7625597484987
*Main> superpow -3

<interactive>:4:1: error:
    * Non type-variable argument in the constraint: Num (b -> b)
        (Use FlexibleContexts to permit this)
    * When checking the inferred type
        it :: forall b. (Integral b, Num (b -> b)) => b -> b

*Main> superpow 1
1
*Main> superpow 0
0
*Main> superpow 2
16
```

Problem 2)

```
*Main> firstAndLast [5..10]
[5,10]
*Main> firstAndLast [1,2]
[1,2]
*Main> firstAndLast [1,2,3]
[1,3]
*Main> firstAndLast [3]
[3,3]
*Main> firstAndLast []
[*** Exception: Prelude.head: empty list
*Main> firstAndLast [a,b,c]
<interactive>:18:15: error: Variable not in scope: a
<interactive>:18:17: error: Variable not in scope: b
<interactive>:18:19: error: Variable not in scope: c
*Main> firstAndLast ['a', 'b', 'c']
"ac"
```

Problem 3)

Problem 4)

```
*Main> isCodeWithComments "a"
*Main> isCodeWithComments " "
*Main> isCodeWithComments "*"
*Main> isCodeWithComments "/"
*Main> isCodeWithComments "/a"
*Main> isCodeWithComments "/ "
True
*Main> isCodeWithComments ""
True
*Main> isCodeWithComments "//"
True
*Main> isCodeWithComments "a//* a"
False
*Main> isCodeWithComments "a//* a*"
False
*Main> isCodeWithComments "a//* a "
False
*Main> isCodeWithComments "a//**** "
False
*Main> isCodeWithComments "a//**** a/ */"
True
*Main> isCodeWithComments "a//**** a/ */ a "
True
*Main> isCodeWithComments "aaa a aaa /* *** /// aa ****/"
True
*Main> isCodeWithComments "aaa a aaa /* *** /// aa ****"
False
*Main> isCodeWithComments "b"
False
```