Assignment #3

The 'for' Statement

Write definitions for each of the following Python functions, and for each function, include a clear and concise comment to describe its purpose.

1. Fraction(c, s)

   The fraction of sequence 's' formed by item 'c'

   ```
   Fraction( "a", "ababab" )  ⇒  0.5
   Fraction( "a", "bcbcbc" )  ⇒  0.0
   Fraction( "a", "aaaaaa" )  ⇒  1.0
   Fraction( "a", ""       )  ⇒  0.0
   ```

2. PrintCommon(s1, s2)

   Print all items which appear in both sequences 's1' and 's2', in the order of their appearance in 's1'; assume that neither sequence contains repeated items

   ```
   PrintCommon( "abcde", "fdgb" )  ⇒  b
                                      d
   ```

3. PrintFrom(c, s)

   Print all items of sequence 's' from the first instance of item 'c' onwards

   ```
   PrintFrom( "x", "abcxdef" )  ⇒  x
                                   d
                                   e
                                   f

   PrintFrom( "x", "axcxdxf" )  ⇒  x
                                   c
                                   x
                                   d
                                   x
                                   f

   PrintFrom( "y", "abcxdef" )  ⇒  ( no output )
   ```

Program Submission:

Store the function definitions in a file named 'a03.py', and turn it in for grading by typing:

```
submit-cs1117 a03.py
```

Due Date: Fri Oct 2, 11:00am