

Due Sept 9 in Class

- 1a. Make sure that your VisualWorks home is set correctly. Open a System Browser and find the String class. Look at the method classNameOnly in the private-store protocol. What is the source code in the method?
- 1b. Now change the VisualWorks home setting so it is not correct. Then deselect and reselect the method classNameOnly in the fourth list pane from the left in the System Browser. What happens?
- 1c. Now set the VisualWorks home to the correct value and deselect and reselect the method classNameOnly. What happens?
- 2a. Which Launcher menu contains an item to allow you to find implementations of a method (or Selector)?
- 2b. Which class(es) implement the method reverse?
- 3a. Which Launcher menu contains an item to allow you to find the senders of a method?
- 3b. Which method(s) send the message useSmallPaletteAlgorithmFor: ?
4. Add the following method to the Character class in converting accessing category.

previous

```
^(self asInteger - 1) asCharacter
```

What is printed when you evaluate the following expressions in a workspace using "Print It"?

```
$a previous
```

```
$z previous
```

```
'xyz' collect: [:each | each previous]
```

5. Exit VisualWorks and save the image as CS535. You should now have two images with different names: CS535.im and visualnc.im. Start VisualWorks with the image visualnc.im and search for the method previous in the Character class. Can you find it? Exit VisualWorks and start VisualWorks with the image CS535.im and search for the method previous in the Character class. Can you find it?

6. When you find the method previous in the Character class file it out using the “File Out as...” item in the “Method” menu of the System Browser. Use the VisualWorks File Browser to open the file you just saved. What is the first line of the file?

7. Open the settings window by selecting the “Settings” item in the “System” menu of the Launcher. Select “Source in the tree view on the left. Change the file-out format to Smalltalk chunk source code. Now file out the method previous in the Character class again. What is the first line of the file now?

8. Modify your Character>> previous method so that:

\$a previous returns \$z

and

\$A previous returns \$Z

In all other cases the Character>>previous method should return the same value as the one given in problem 4. Turn in your source code for the method.

### **Change Log**

Sept 8. Problems 7 & 8 incorrectly referred to "next". This was changed to "previous".