

CGS 3175: Internet Applications Fall 2009

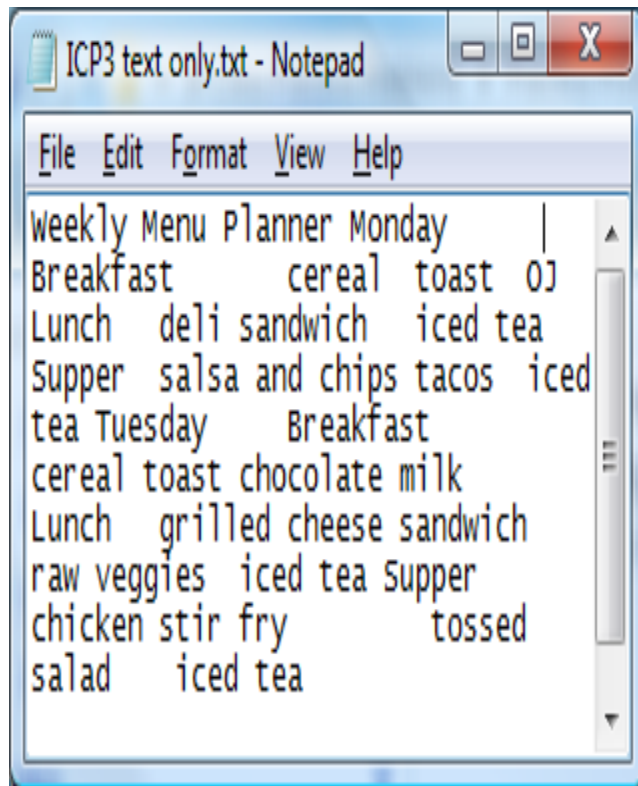
In Class Practice – Three

Instructor : Dr. Mark Llewellyn
markl@cs.ucf.edu
HEC 236, 407-823-2790
<http://www.cs.ucf.edu/courses/cgs3175/fall2009>

School of Electrical Engineering and Computer Science
University of Central Florida



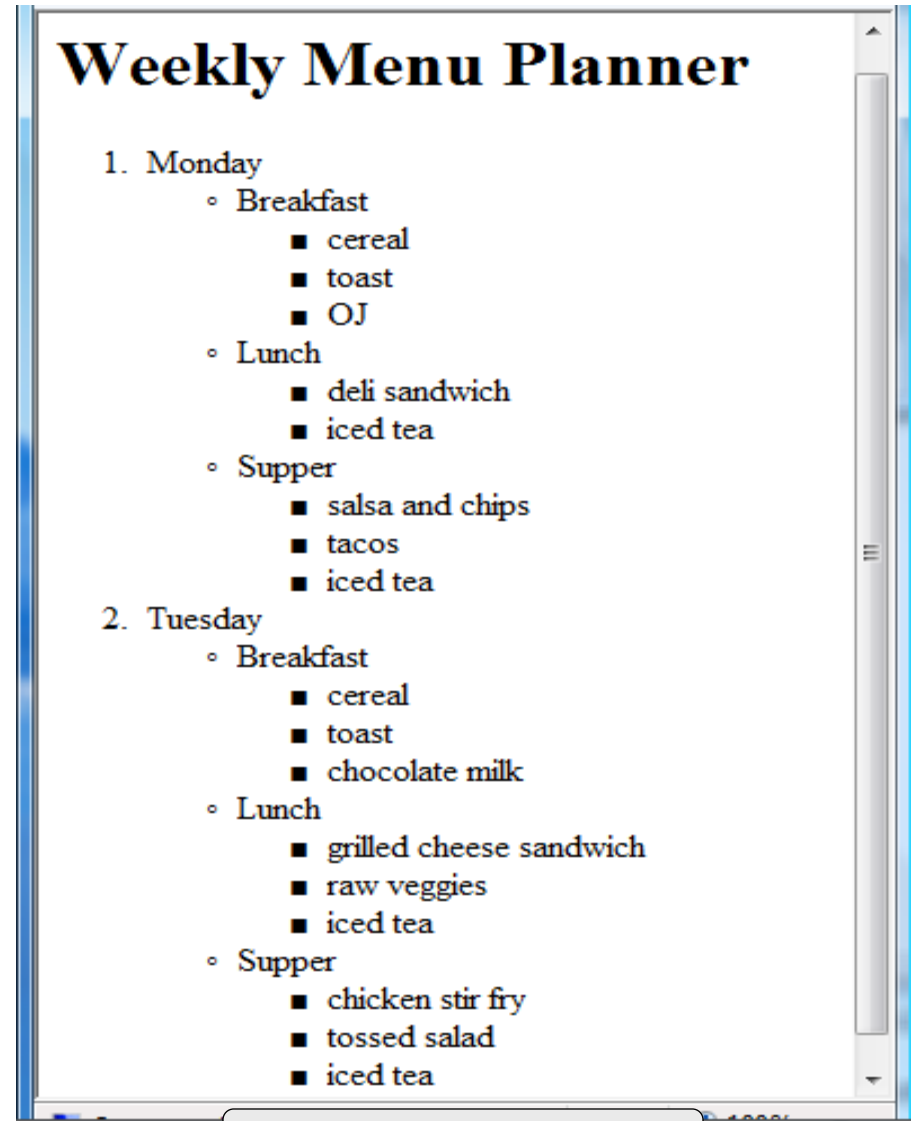
We want the text shown on the left below to be marked up using XHTML so that a browser will render it as shown on the right below.

A screenshot of a Notepad window titled "ICP3 text only.txt - Notepad". The window contains the following text:

```
Weekly Menu Planner Monday
Breakfast cereal toast OJ
Lunch deli sandwich iced tea
Supper salsa and chips tacos iced
tea Tuesday Breakfast
cereal toast chocolate milk
Lunch grilled cheese sandwich
raw veggies iced tea Supper
chicken stir fry tossed
salad iced tea
```

Original text

Nested Lists - Revisited

A screenshot of a web browser window displaying a "Weekly Menu Planner". The title "Weekly Menu Planner" is in a large, bold, black serif font. Below the title, the menu is organized into two main sections: "1. Monday" and "2. Tuesday". Each section contains three sub-sections: "Breakfast", "Lunch", and "Supper". Each sub-section is preceded by a small circle bullet point. The items within each sub-section are preceded by small square bullet points. The text is rendered in a black serif font, matching the original text's appearance. The browser window has a standard address bar and scrollbar.

Weekly Menu Planner

1. Monday
 - Breakfast
 - cereal
 - toast
 - OJ
 - Lunch
 - deli sandwich
 - iced tea
 - Supper
 - salsa and chips
 - tacos
 - iced tea
2. Tuesday
 - Breakfast
 - cereal
 - toast
 - chocolate milk
 - Lunch
 - grilled cheese sandwich
 - raw veggies
 - iced tea
 - Supper
 - chicken stir fry
 - tossed salad
 - iced tea

Rendered document



```
template.html commenttom.html Assignment 2 - Part 1.htm ICP3 text only.txt ICP3 markup only.html ICP3 - with global styles.html
8 <body>
9   <h1> Weekly Menu Planner </h1>
10  <ol> <!-- start ordered list of elements -->
11    <li>Monday <!-- first element in ordered list -->
12      <ul> <!-- start unordered nested list 1 - note that first element in ordered list has not yet closed -->
13        <li>Breakfast <!-- first element in unordered nested list 1 begins here-->
14          <ul> <!-- start unordered nested list 2 - note that first element in unordered list 1 has not yet closed -->
15            <li>cereal</li> <!-- first element in unordered list 2 -->
16            <li>toast</li>
17            <li>OJ</li>
18          </ul> <!-- end unordered nested list 2 -->
19        </li> <!-- end first list element in unordered list 1 -->
20        <li>Lunch <!-- second element in unordered nested list 1 begins here-->
21          <ul> <!-- start unordered nested list 2 - note that second element in unordered list 1 has not yet closed -->
22            <li>deli sandwich</li>
23            <li>iced tea</li>
24          </ul> <!-- end unordered nested list 2 -->
25        </li> <!-- end second list element in unordered list 1 -->
26        <li>Supper <!--third element in unordered list 1 begins here -->
27          <ul> <!-- start unordered nested list 2 - note that third element in unordered list 1 has not yet closed -->
28            <li>salsa and chips</li>
29            <li>tacos</li>
30            <li>iced tea</li>
31          </ul> <!--end unordered nested list 2 -->
```

```
template.html commenttom.html Alignment 2 - text.txt Assignment 2 - Part 1.html ICP3 text only.txt ICP3 markup only.html ICP3 - with global styles.html
31         </ul> <!--end unordered nested list 2 -->
32     </li> <!-- end third list element in unordered list 1 -->
33 </ul> <!--end unordered nested list 1 -->
34 </li> <!-- end first element in ordered list -->
35 <li>Tuesday <!-- start second element in ordered list -->
36 <ul> <!-- start unordered nested list 1 - note that second element of ordered list has not yet closed -->
37     <li>Breakfast <!-- first element in unordered nested list 1 begins here-->
38         <ul> <!-- start unordered nested list 2 - note that first element in unordered list 1 has not yet closed -->
39             <li>cereal</li> <!-- first element in unordered list 2 -->
40             <li>toast</li>
41             <li>chocolate milk</li>
42         </ul> <!-- end unordered nested list 2 -->
43     </li> <!-- end first list element in unordered list 1 -->
44     <li>Lunch <!-- second element in unordered nested list 1 begins here-->
45         <ul> <!-- start unordered nested list 2 - note that second element in unordered list 1 has not yet closed -->
46             <li>grilled cheese sandwich</li>
47             <li>raw veggies</li>
48             <li>iced tea</li>
49         </ul> <!-- end unordered nested list 2 -->
50     </li> <!-- end second list element in unordered list 1 -->
51     <li>Supper <!--third element in unordered list 1 begins here -->
52         <ul> <!-- start unordered nested list 2 - note that third element in unordered list 1 has not yet closed -->
53             <li>chicken stir fry</li>
54             <li>tossed salad</li>
```



C:\Courses\CGS 3175 - Internet Applications\Fall 2009\example code - new\In Class Practice Problems\Practice Problems Three\ICP3 markup only.html - N...

File Edit Search View Format Language Settings Macro Run TextFX Plugins Window ?

template.html commentform.html Assignment 2 Text.txt Assignment 2 - Part 1.html ICP3 text only.txt ICP3 markup only.html ICP3 - with global styles.html

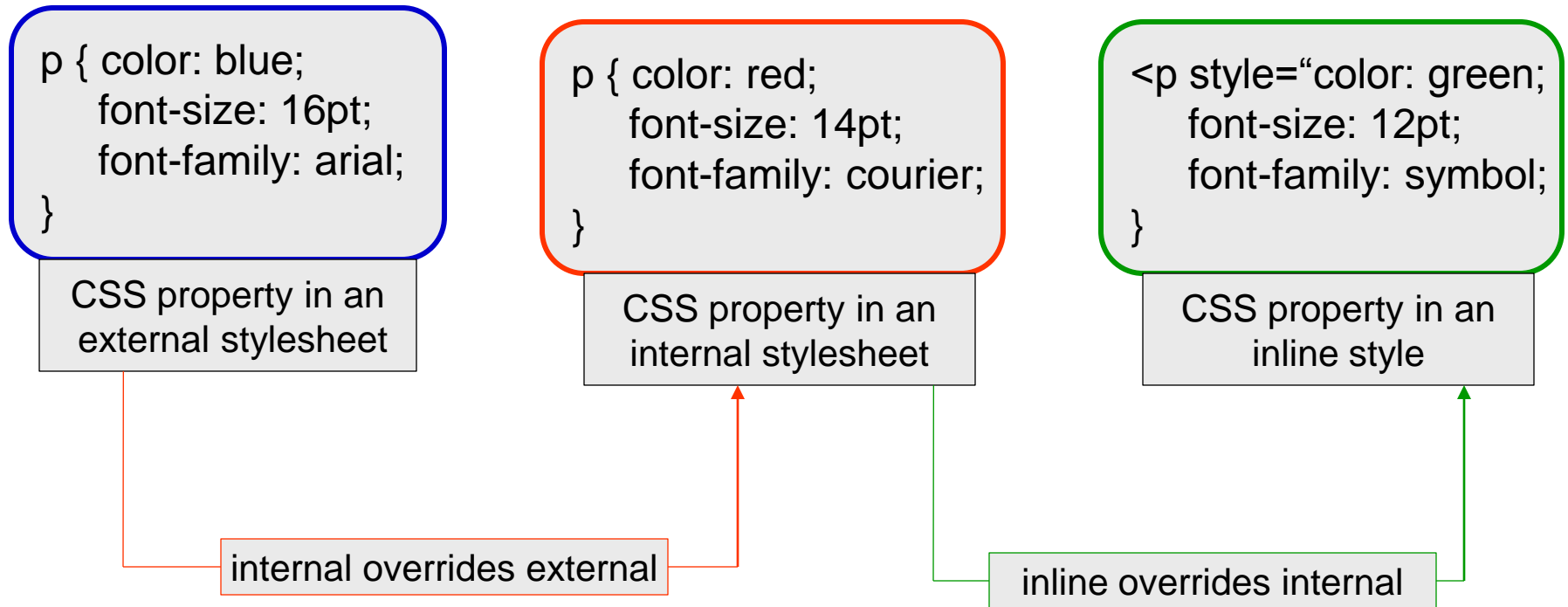
```
53         <li>chicken stir fry</li>
54         <li>tossed salad</li>
55         <li>iced tea</li>
56     </ul> <!--end unordered nested list 2 -->
57 </li> <!-- end third list element in unordered list 1 -->
58 </ul> <!--end unordered nested list 1 -->
59 </li> <!-- end second element in ordered list -->
60 </ol> <!--end ordered list -->
61 </body>
62 </html>
63
64
```

Hyper Text Markup Language file nb char : 3259 nb line : 64 Ln : 8 Col : 7 Sel : 0 UNIX ANSI INS



CSS Cascade – Revisited

- The cascade of CSS properties is from outer styles toward inner styles.



CSS Inheritance – Revisited

- The inheritance of CSS properties in nested elements is from inner nested elements to outer elements. Properties of the parents are inherited by their children.

```
ol { color: blue;  
    font-size: 16pt;  
    font-family: arial;  
}
```

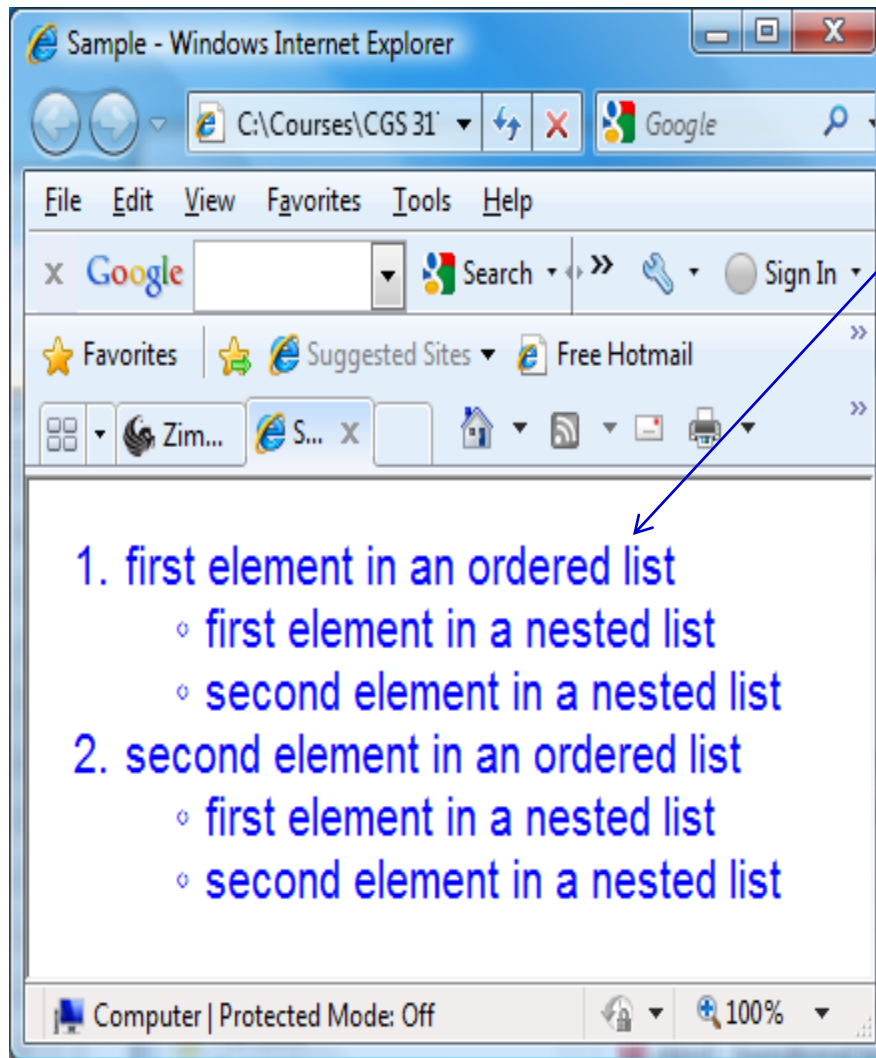
CSS property applying
to ordered list elements

```
<ol>  
  <li>first element in an ordered list  
  <ul>  
    <li>first element in a nested list</li>  
    <li>second element in a nested list</li>  
  </ul>  
  </li>  
  <li>second element in an ordered list  
  <ul>  
    <li>first element in a nested list</li>  
    <li>second element in a nested list</li>  
  </ul>  
  </li>  
</ol>
```

What color will the text be for the nested lists?



ANSWER



blue

Since the unordered lists are nested inside of the ordered list, they inherit all of the properties of their enclosing elements. In this case the ordered list encloses (is the parent of) both nested unordered lists (their children).

Since the ordered list is styled to have blue text at 16 point using the arial font, then these properties will also style the nested elements.



CSS Inheritance – Revisited

- In order to style the nested elements differently we need to do one of two things, either (1) define a style property for the nested elements which is different from that of the element in which they are nested, or (2) override the inheritance property by defining an inline style that will supersede the style that would be inherited.
- The next few pages illustrate both of these techniques. The next page will illustrate the first technique where we'll include a different style definition in the embedded style sheet for the unordered lists.
- Page 13 illustrates the second technique where an inline style is used on each of the nested unordered lists to provide a superseding style.



```
C:\Courses\CGS 3175 - Internet Applications\Fall 2009\example code - new\In Class Practice Problems\Practi...
File Edit Search View Format Language Settings Macro Run TextFX Plugins Window ?
Assignment 2 Text.txt Assignment 2 - Part 1.html ICP3 text only.txt ICP3 markup only.html ICP3 - with global styles
5 <head>
6   <title>Sample - Separately styled elements</title>
7   <style type="text/css">
8     <!--
9     ol {color:blue; font-size:16pt; font-family:arial;}
10    ul {color:red; font-size:12pt;}
11    -->
12  </style>
13 </head>
14 <body>
15   <ol>
16     <li>first element in an ordered list
17     <ul>
18       <li>first element in a nested list</li>
19       <li>second element in a nested list</li>
20     </ul>
21   </li>
22   <li>second element in an ordered list
23   <ul>
24     <li>first element in a nested list</li>
25     <li>second element in a nested list</li>
26   </ul>
27 </li>
28 </ol>
```

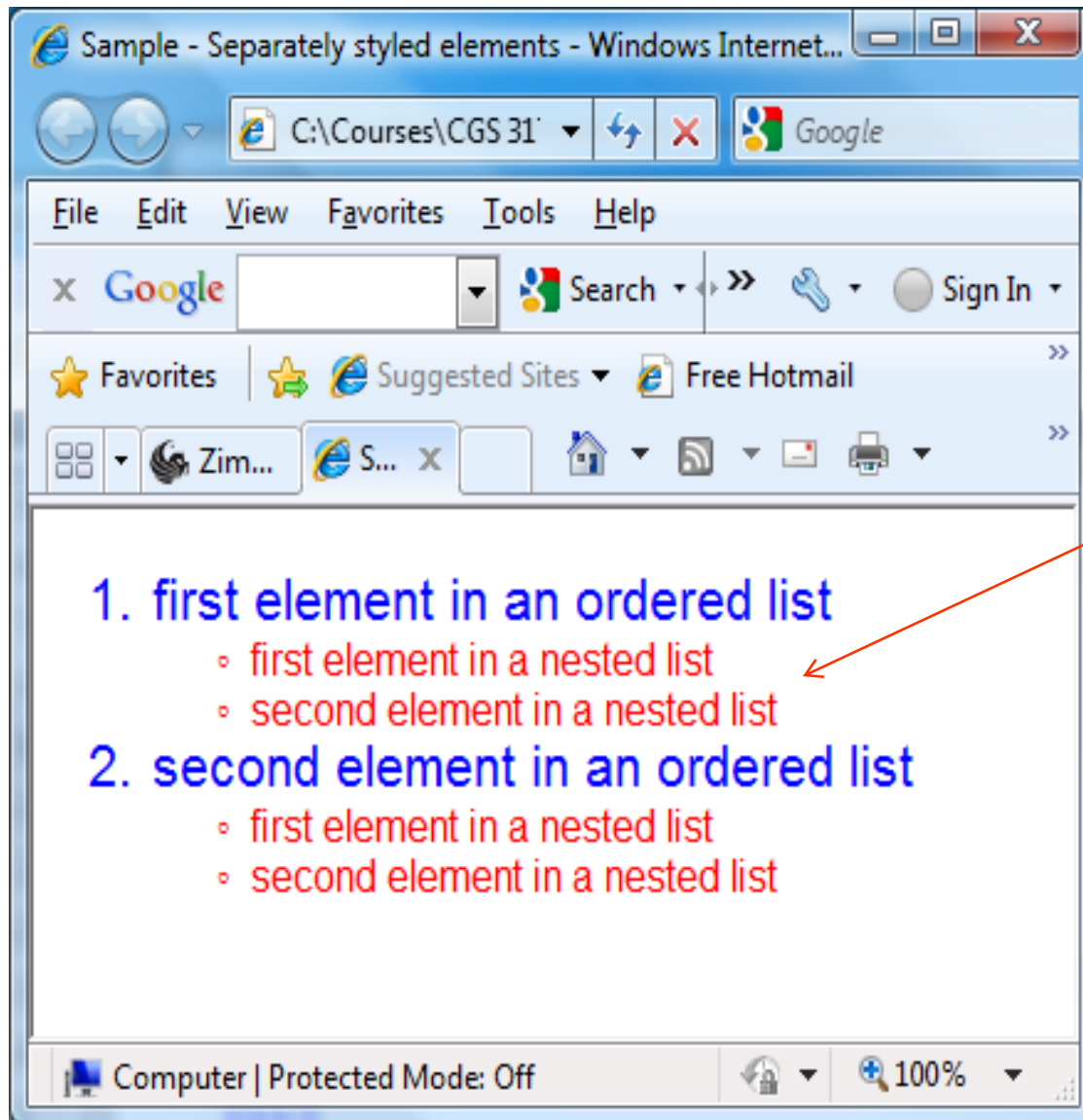
New style for elements.
Color: red, font-size: 12pt

Now what color will the
nested lists be?

What font will they
appear in?



CSS Inheritance – Revisited

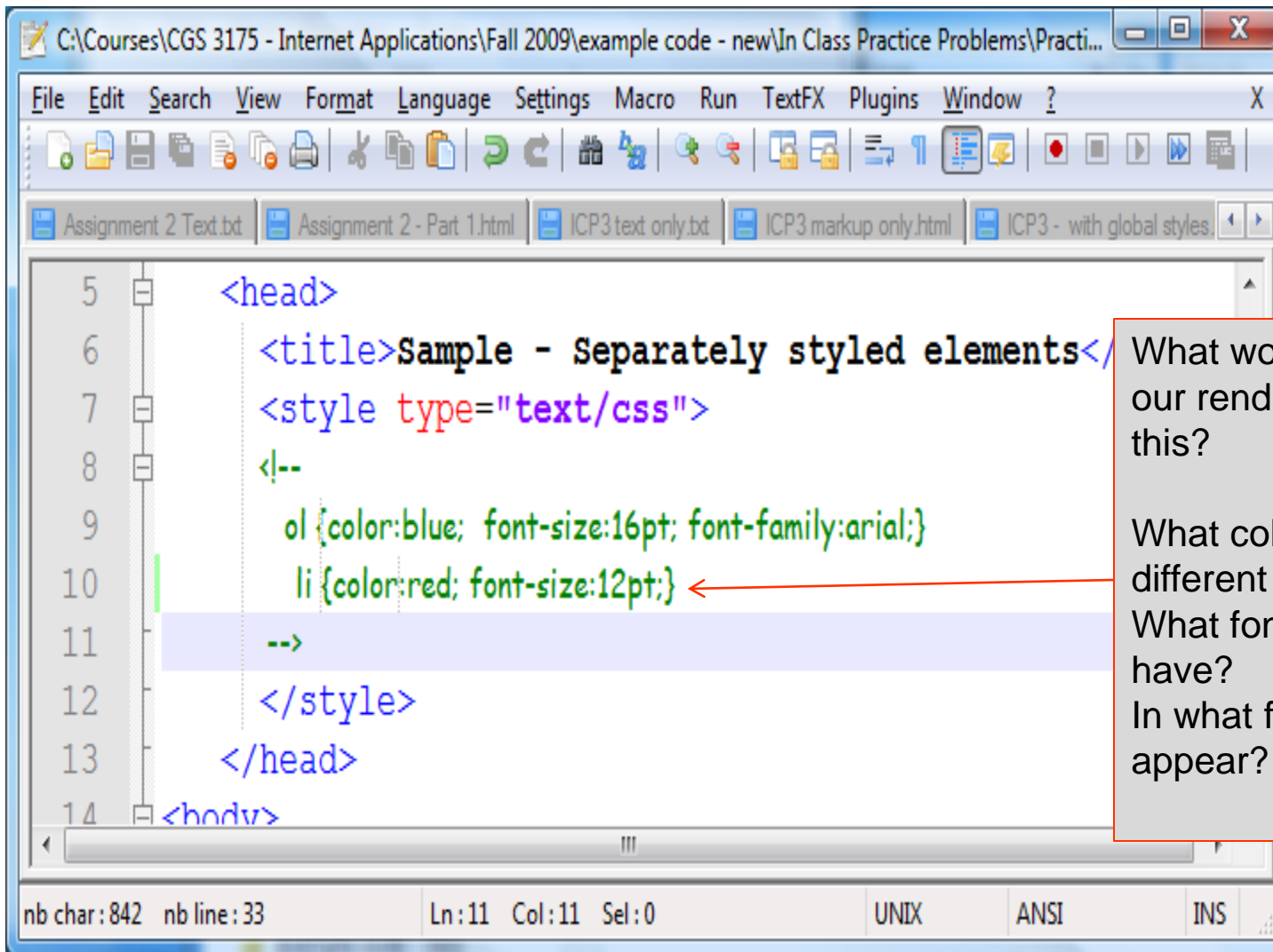


The nested unordered lists appear in a red, 12pt font. The property for the `` elements is partially different from that of their parent.

Note that the font-family is arial as that property is still inherited from their parent and was not superseded in the definition for the `` elements.



CSS Inheritance – Revisited



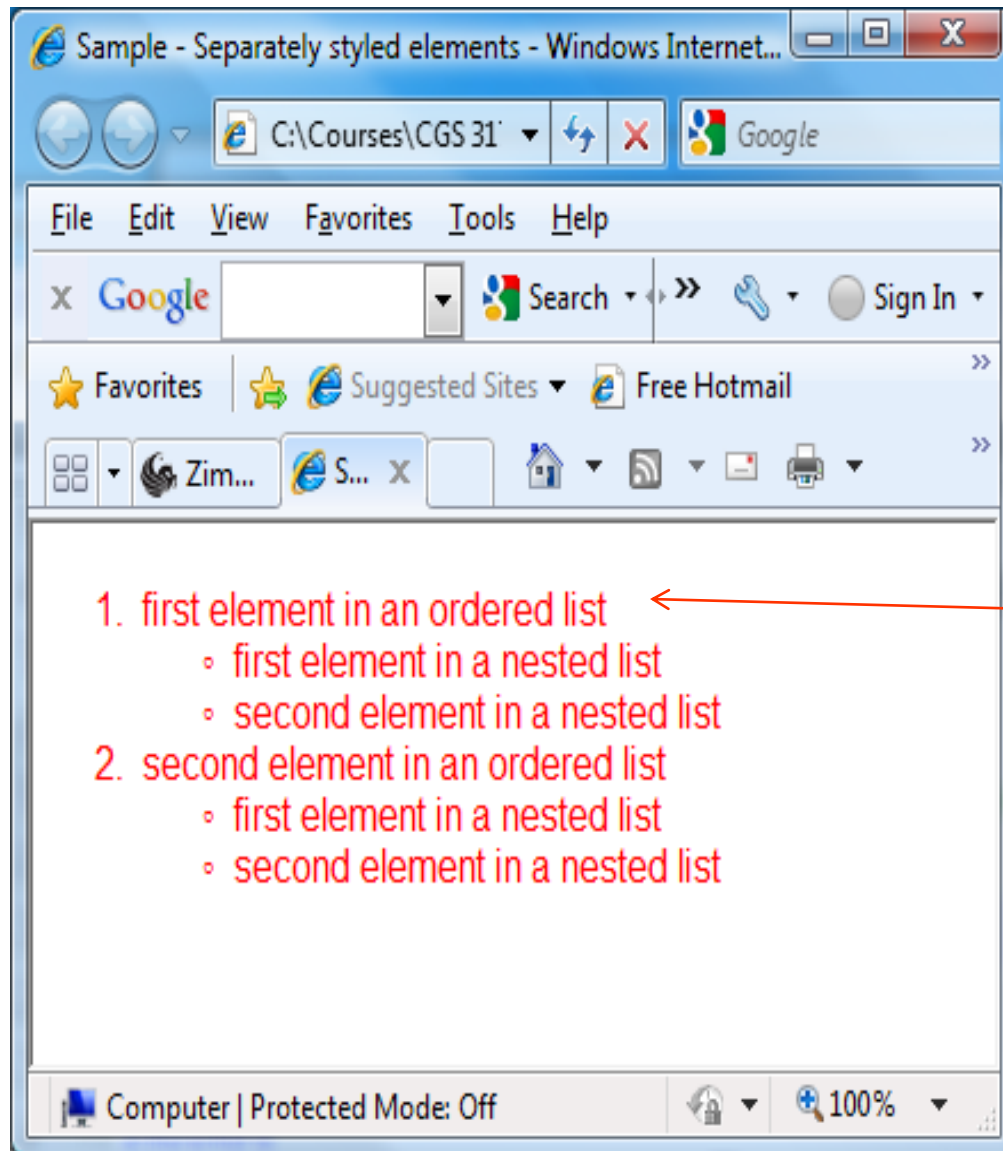
```
5 <head>
6   <title>Sample - Separately styled elements</title>
7   <style type="text/css">
8     <!--
9       ol {color:blue; font-size:16pt; font-family:arial;}
10      li {color:red; font-size:12pt;}
11    -->
12  </style>
13 </head>
14 <body>
```

What would happen to our rendering if we did this?

What color would the different lists be?
What font-size would they have?
In what font would they appear?



CSS Inheritance – Revisited



What happened?

Since we defined a different style for the `` elements the only property inherited by the unordered nested lists will be the font-family which was not specified for the `` elements as is thus inherited from their parent which in this case is the `` element for every `` element in this document.

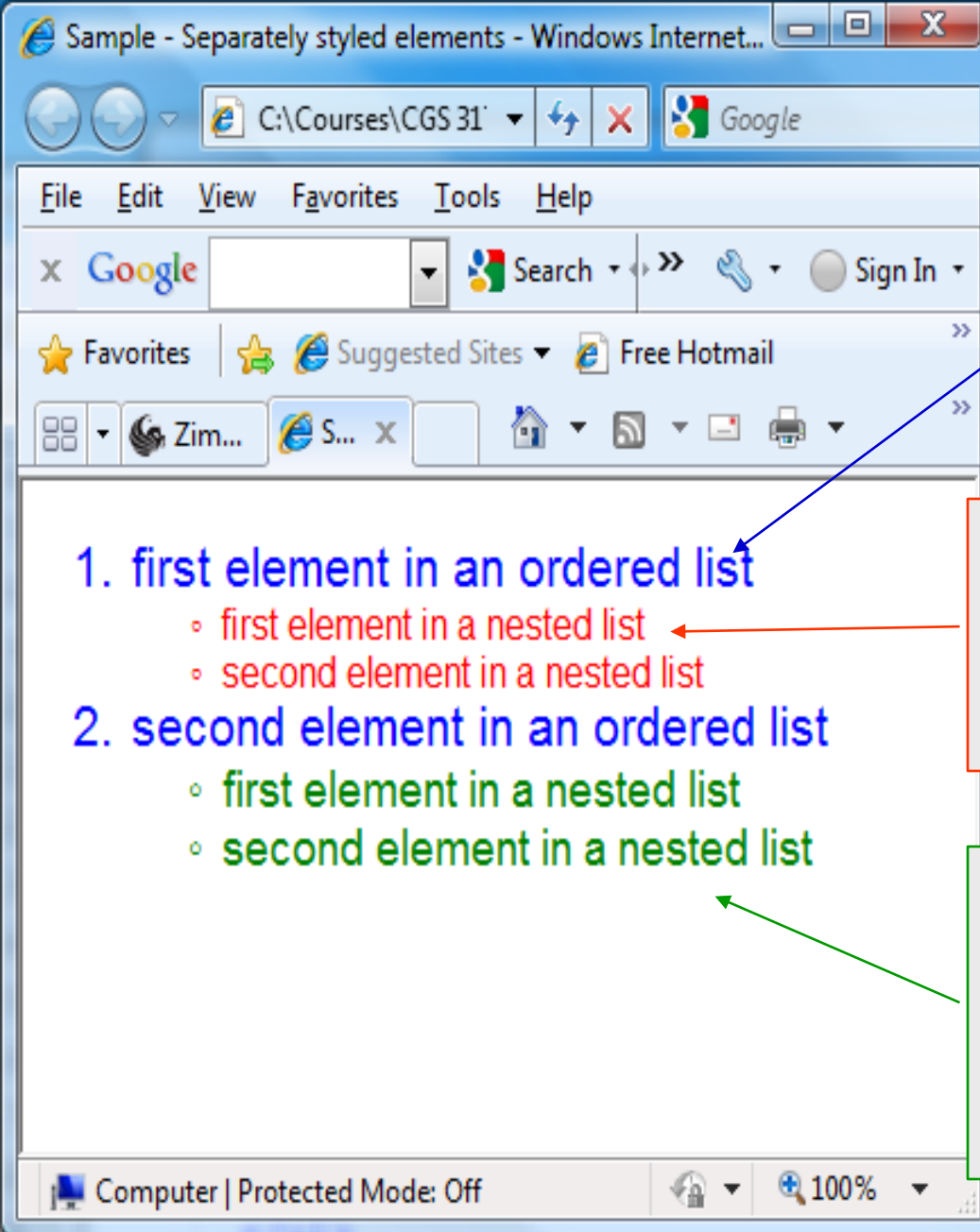


Using an inline style to supersede the inheritance of CSS properties

```
6 <title>Sample - Separately styled elements</title>
7 <style type="text/css">
8 <!--
9 ol {color:blue; font-size:16pt; font-family:arial;}
10 -->
11 </style>
12 </head>
13 <body>
14 <ol>
15 <li>first element in an ordered list
16 <ul style="color:red; font-size:12pt; font-family:times new roman">
17 <li>first element in a nested list</li>
18 <li>second element in a nested list</li>
19 </ul>
20 </li>
21 <li>second element in an ordered list
22 <ul style="color:green; font-size:14pt">
23 <li>first element in a nested list</li>
24 <li>second element in a nested list</li>
25 </ul>
26 </li>
```

What color will the different lists be?
What font-size will they have?
In what font will they appear?





Answer

All `` elements appear in blue, 16 pt, arial font as defined in embedded style sheet

First nested unordered list appears in red, 12 pt, times new roman font as defined in the inline style. The inline style supersedes all the inherited properties.

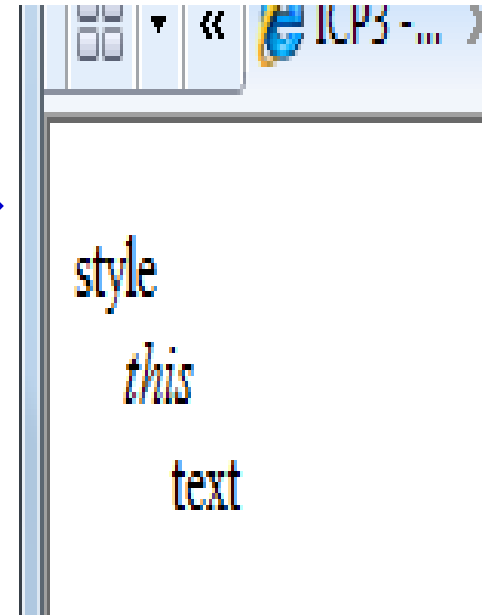
Second nested unordered list appears in green, 14 pt as defined in the inline style. The inline style supersedes all the inherited properties for color and font-size but does not supersede the font-family property so this list appears in arial font.



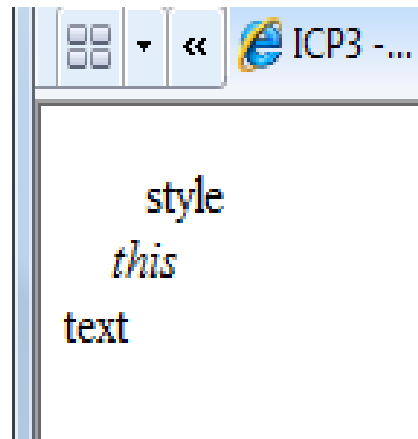
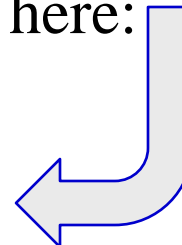
XHTML Practice Questions

- Write the XHTML elements that do the following to the text:
markup this text.

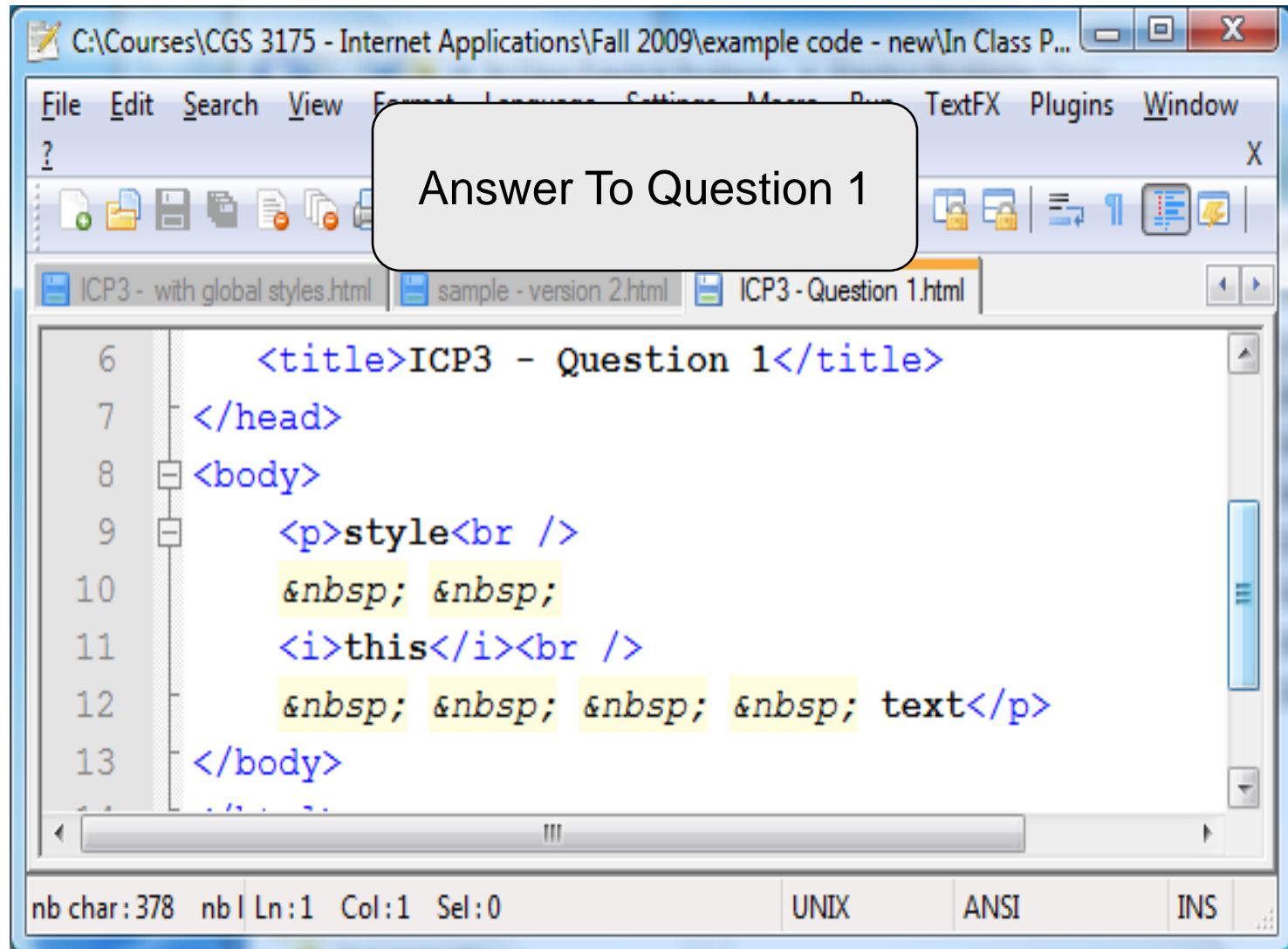
1. Write XHTML elements that will render the line above as shown here:



2. Write XHTML elements that will render the line above as shown here:



XHTML Practice Questions - ANSWERS



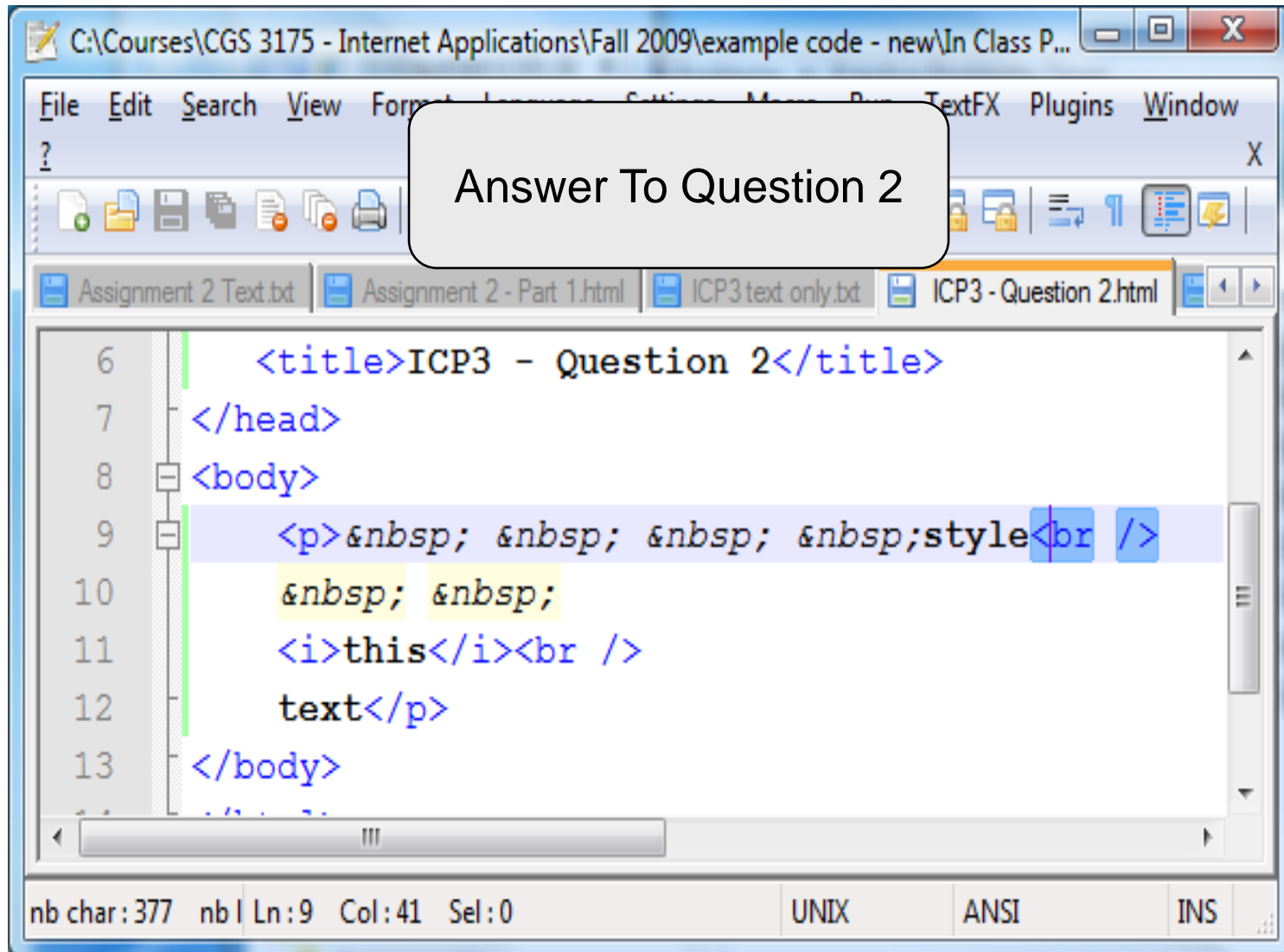
Answer To Question 1

```
6      <title>ICP3 - Question 1</title>
7  </head>
8  <body>
9      <p>style<br />
10     &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
11     <i>this</i><br />
12     &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; text</p>
13 </body>
```

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XHTML Practice Questions - ANSWERS



Answer To Question 2

```
6      <title>ICP3 - Question 2</title>
7  </head>
8  <body>
9  <p>&nbsp; &nbsp; &nbsp; &nbsp;style<br />
10 &nbsp; &nbsp;
11 <i>this</i><br />
12 text</p>
13 </body>
```

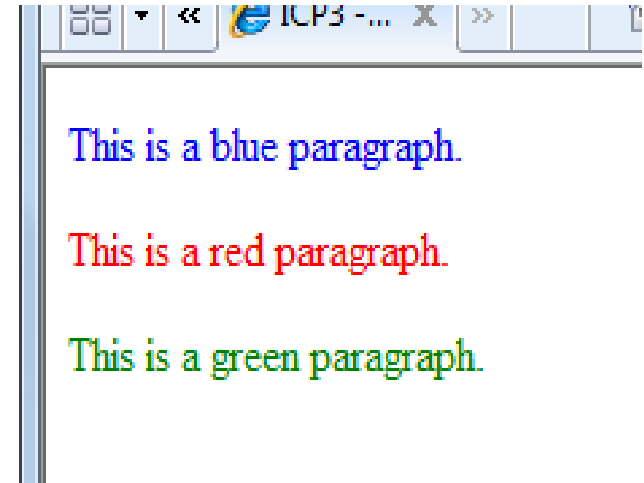
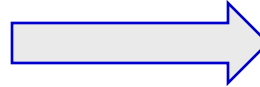
nb char: 377 nb | Ln: 9 Col: 41 Sel: 0 UNIX ANSI INS



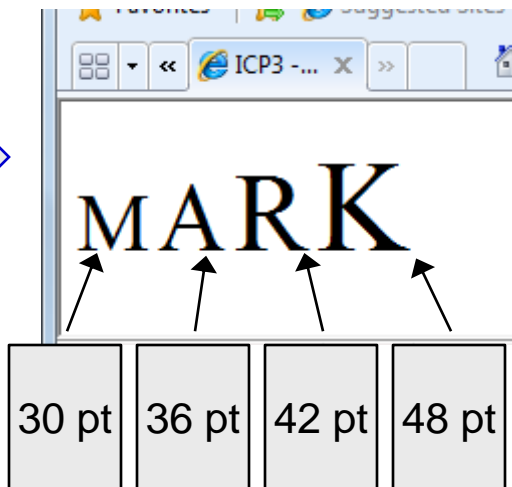
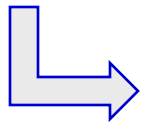
CSS Practice Questions

- Write the CSS rules that will provide the renderings shown below to an XHTML document:

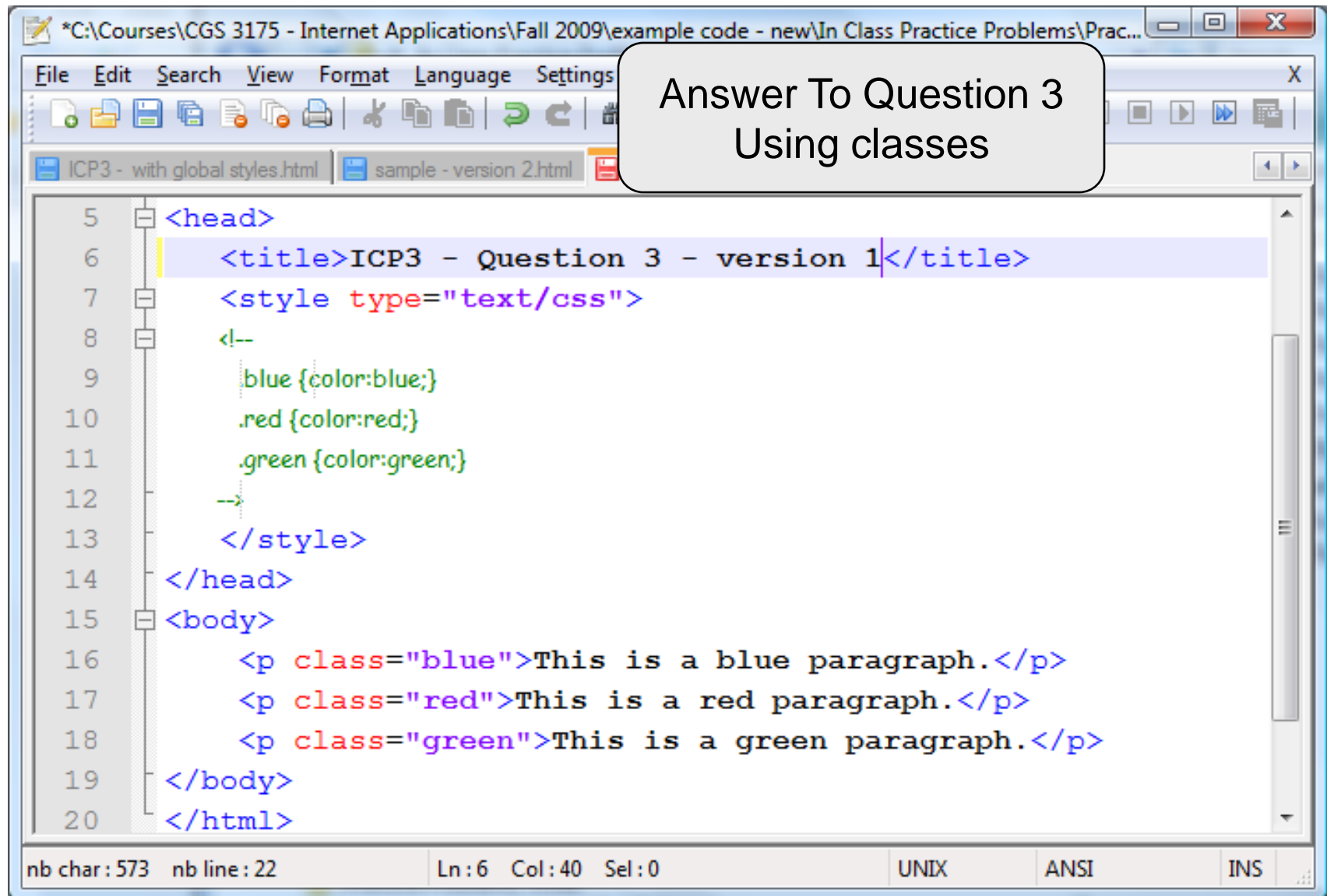
3. Write the CSS rules two different ways to accomplish this:



4. Write the CSS rules to accomplish this:



CSS Practice Questions - ANSWERS



The screenshot shows a web editor window with the following HTML code:

```
5 <head>
6   <title>ICP3 - Question 3 - version 1</title>
7   <style type="text/css">
8     <!--
9       blue {color:blue;}
10      .red {color:red;}
11      .green {color:green;}
12     -->
13   </style>
14 </head>
15 <body>
16   <p class="blue">This is a blue paragraph.</p>
17   <p class="red">This is a red paragraph.</p>
18   <p class="green">This is a green paragraph.</p>
19 </body>
20 </html>
```

A callout box titled "Answer To Question 3 Using classes" points to the title and style sections of the code.

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CSS Practice Questions - ANSWERS

Answer To Question 3
Using inline styles

```
1 <?xml version="1.0" encoding="UTF-8" standalone="no"?>
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
3   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
4 <html xmlns="http://www.w3.org/1999/xhtml">
5 <head>
6   <title>ICP3 - Question 3 - version 2</title>
7 </head>
8 <body>
9   <p style="color:blue">This is a blue paragraph.</p>
10  <p style="color:red">This is a red paragraph.</p>
11  <p style="color:green">This is a green paragraph.</p>
12 </body>
13 </html>
14
```

nb char: 461 nb line: 15

Ln:1 Col:1 Sel:0

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CSS Practice Questions - ANSWERS

Answer To Question 4

```
C:\Courses\CGS 3175 - Internet Applications\Fall 2009\example code - new\In Class Practice Problems\Pract...
File Edit Search View Format Language Settings
ICP3 - Question 2.html ICP3 - with global styles.html

3      "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
4      <html xmlns="http://www.w3.org/1999/xhtml">
5      <head>
6          <title>ICP3 - Question 4</title>
7      </head>
8      <body>
9          <p>
10             <span style="font-size:30pt">M</span>
11             <span style="font-size:36pt">A</span>
12             <span style="font-size:42pt">R</span>
13             <span style="font-size:48pt">K</span>
14         </p>
15     </body>

nb char: 469  nb line: 18  Ln: 9  Col: 8  Sel: 0  UNIX  ANSI  INS
```

