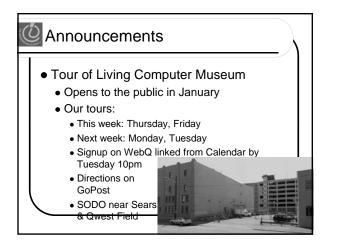
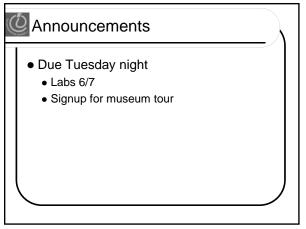
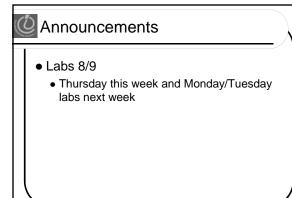
## Announcements

- CLUE Tutoring
  - Wednesday nights 7-8:30PM MGH 058
  - 2 extra-credit points for each session you attend from last week through the end of the quarter
  - Sign the attendance list to get credit!

## Announcements Veteran's Day on Wednesday Official UW holiday CLUE Tutoring is on Monday night this week only 7-8:30pm If you have Wednesday lab section, Attend a drop-in lab this week Get 2 points extra credit for attending CLUE Tutoring—sign the attendance sheet

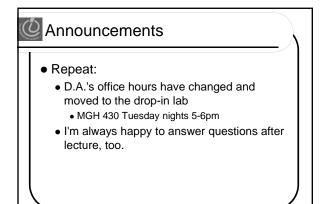


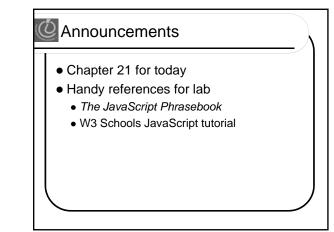


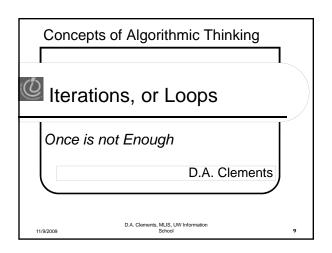


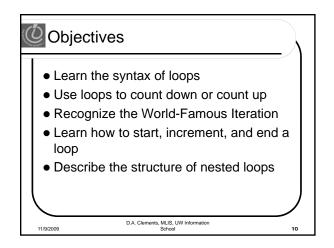
## Announcements

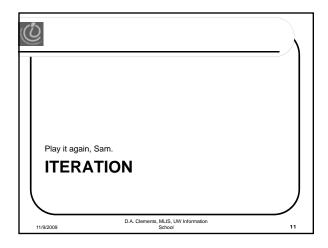
- The Museum Tour and Labs 8/9 are optional—for extra credit.
  - Choose one or the other

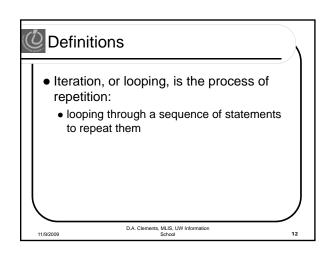


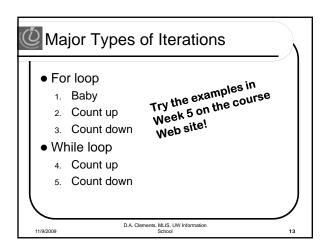


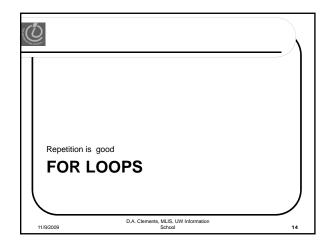


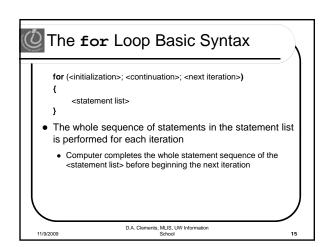


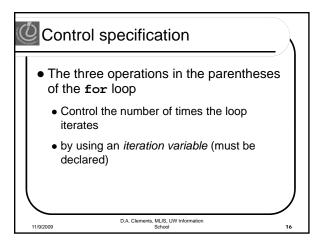


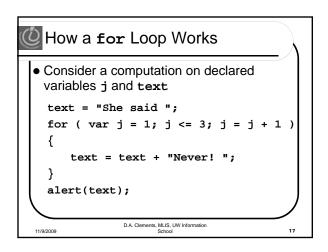


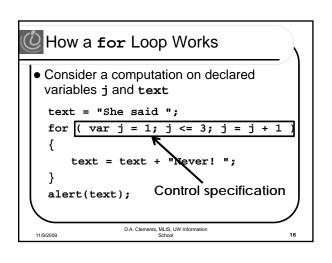


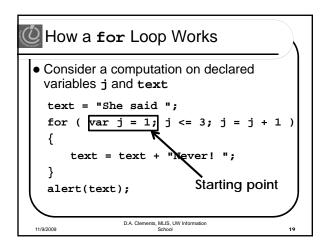


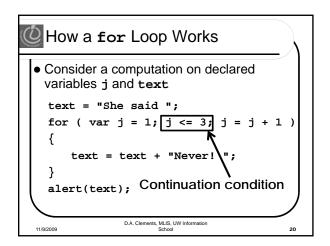


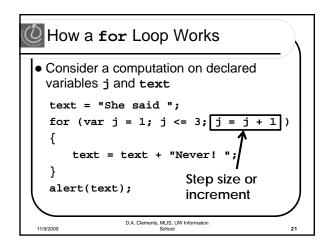


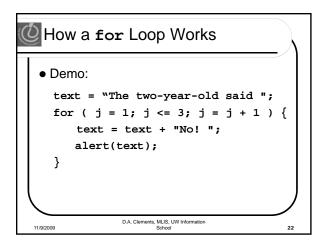


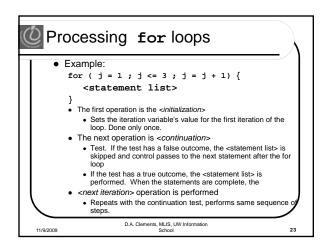


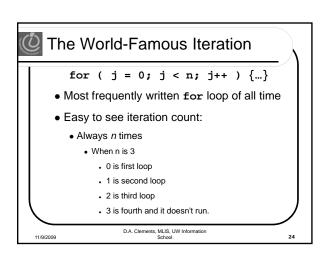




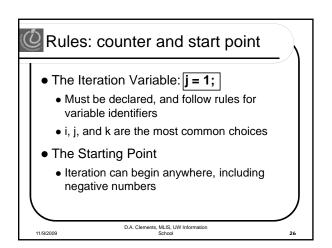


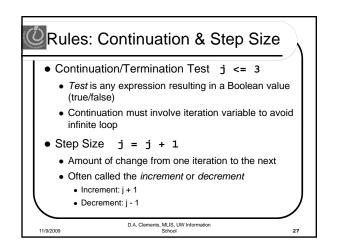


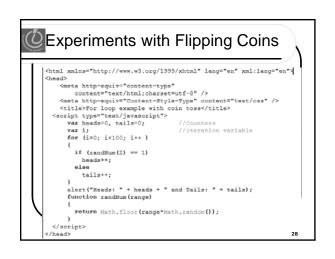


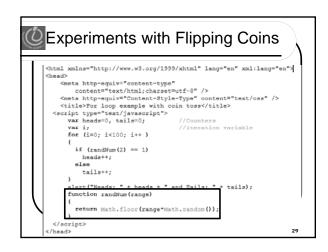


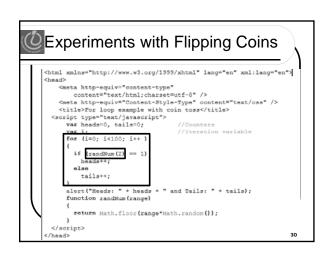
	<pre>ie sequence of operations of j=1; j&lt;=3; j=j+1)</pre>	n j from the for loop with control
Operation	Operation Result	Role
j = 1	j's value is 1	Initialize iteration variable
j <= 3	true, j is less than 3	First < continuation> test, continue
j = j + 1	j's value is 2	First < next iteration> operation
<b>Z</b> <sub>j</sub> <b>/</b> 3	true, j is less than 3	Second < continuation> test, continue
<b>j</b> = j + 1	j's value is 3	Second <next iteration=""> operation</next>
<b>3</b> <sub>j &lt;= 3</sub>	true, j is equal to 3	Third <continuation> test, continue</continuation>
j = j + 1	j's value is 4	Third <next iteration=""> operation</next>
j <= 3	false, j is greater than 3	Fourth <continuation> test, terminate</continuation>

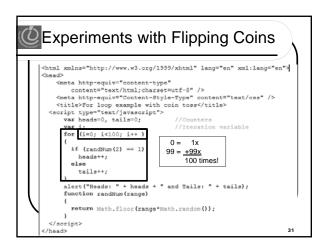


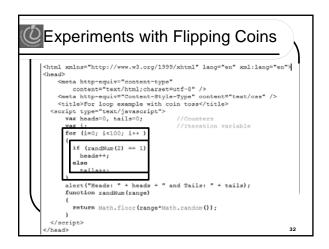


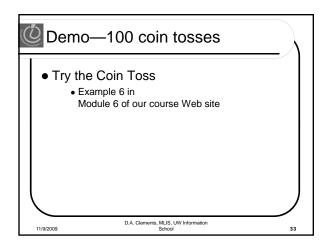


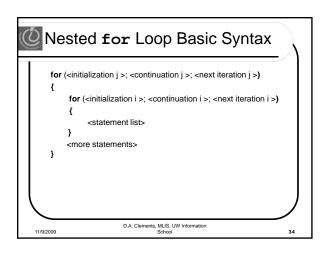


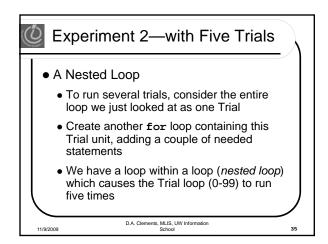


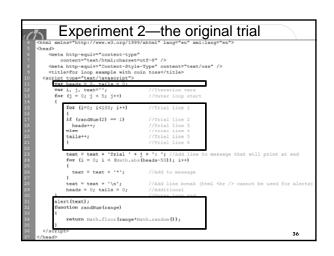




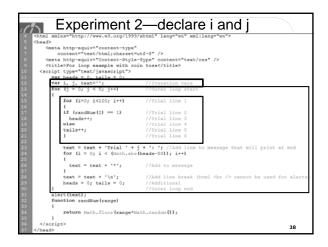






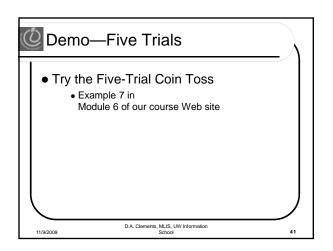


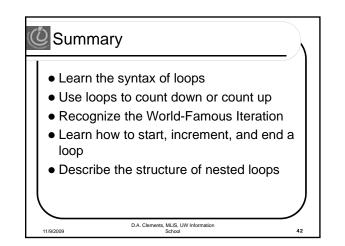
		2—outer loop	
<pre>4 <html lang="en" xml:lang="en" xmlns="http&lt;br&gt;5 &lt;head&gt;&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;://www.w3.org/1999&lt;/th&gt;&lt;th&gt;9/xhtml"></html></pre>			
	uiv="content-type" text/html;charset:		
S <meta http-eq<="" p=""/>	uiv="Content-Style	e-Type" content="text/css" />	
	op example with co ext/iavascript">	oin toss	
	0, tails = 0;		
12 var i, j, t		//Iteration vars	
<pre>13 for (j = 0;</pre>	j < 5; j++)	//Outer loop start	
15 for (i=	0; i<100; i++)	//Trial line 1	
17 if (ran	dNum(2) == 1)	//Trial line 2	
10 heads	++;	//Trial line 3	
20 tails++		//Trial line 4 //Trial line 5	
21 )	,	//Trial line 6	
		$\frac{1}{2}$ + ': '; //Add line to message that will print at end s(heads-50)); i++)	
26 text 27 )	= text + '*';	//Add to message	
20 text = 29 heads =	<pre>text * '\n'; 0; tails = 0;</pre>	//Add line break (html cannot be used for alex //Additional //Outer loop end	cta)
31 alert(text)	1	//outer loop end	
32 function ra	, ndNum(range)		
33 (	Math.floor(range*)	tent and 01.	
35 }	Math. 11001 (range-)	Math. Fandom (/);	
36		37	
37		31	



Experiment	2—set heads, tails to zero
4 <html lang="en" xml:lang="en" xmlns="http://www.w3.org/1993&lt;/p&gt;&lt;/th&gt;&lt;th&gt;9/xhtml"></html>	
5 <head></head>	
6 <meta <="" http-equiv="content-type" p=""/>	
7 content="text/html;charset"	=utf-8* />
S <meta <="" http-equiv="Content-Style" p=""/>	
9 <title>For loop example with compared to the second s&lt;/th&gt;&lt;th&gt;oin toss</title>	
10 <script type="text/javascript"></th><th></th></tr><tr><th><pre>war heads = 0, tails = 0;</pre></th><th></th></tr><tr><th>12 var i, j, text='';</th><th>//Iteration vars</th></tr><tr><th>13 for (j = 0; j < 5; j++)</p></th><th>//Outer loop start</th></tr><tr><th>14 (</th><th></th></tr><tr><th>15 for (i=0; i<100; i++) 16 (</th><td>//Trial line 1</td></tr><tr><th>17 if (randNum(2) == 1)</th><td>//Trial line 2</td></tr><tr><th><pre>17 if (randNum(2) == 1) 18 heads++;</pre></th><th>//Trial line 3</th></tr><tr><th>19 else</th><th>//Trial line 4</th></tr><tr><th>20 tails++;</th><th>//Trial line 5</th></tr><tr><th>21 ) 22</th><th>//Trial line 6</th></tr><tr><th></th><th>j</math> + ': '; //Add line to message that will print at end <math display="inline">a(heads-50));</math> i++)</th></tr><tr><th>26 text = text + '*'; 27</th><th>//Add to message</th></tr><tr><th>20 text = text + '\n';</th><td>//Add line break (html   cannot be used for alerts)</td></tr><tr><th>29 heads = 0; tails = 0;</th><th>//Additional</th></tr><tr><th>30</th><td>//Outer loop end</td></tr><tr><th>31 alert(text);</th><td></td></tr><tr><th>32 function randNum(range)</th><td></td></tr><tr><th>33 (</th><th></th></tr><tr><th>34 return Math.floor(range*)</th><th>Math.random());</th></tr><tr><th>35 }</th><td></td></tr><tr><th>36 </script>	39
37	39

	2—how far from 50%?
<pre>4 <html 5="" <head="" xmlns="*http://www.w3.org/199"></html></pre>	9/xhtml" lang="en" xml:lang="en">
chead> cmeta http-equiv="content-type"	
7 content="text/html;charset"	
6 <meta <="" http-equiv="Content-Style" p=""/>	
9 <title>For loop example with compared to the second s&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;0 &lt;script type="text/javascript"&gt;&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;var heads = 0, tails = 0;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;var i, j, text='';&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;//Iteration vars&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;13 for (j = 0; j &lt; 5; j++)&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;//Outer loop start&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;14 (&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;15 for (i=0; i&lt;100; i++) (&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;//Trial line 1&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;if (randNum(2) == 1)&lt;/th&gt;&lt;th&gt;//Trial line 2&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;6 heads++;&lt;/th&gt;&lt;th&gt;//Trial line 3&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;else&lt;/th&gt;&lt;th&gt;//Trial line 4&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;tails++;&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;//Trial line 5&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;12&lt;/th&gt;&lt;th&gt;//Trial line 6&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;j&lt;/math&gt; + ': '; //Add line to message that will print at end s(heads=50)); i++)&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;6 text = text + '*';&lt;br&gt;7 }&lt;/th&gt;&lt;th&gt;//Add to message&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;text = text + '\n';&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;//Add line break (html &lt;br /&gt; cannot be used for alerts&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;heads = 0; tails = 0;&lt;/th&gt;&lt;th&gt;//Additional&lt;br&gt;//Outer loop end&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;alert(text);&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;function randNum(range)&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;13 (&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;4 return Math.floor(range*)&lt;/th&gt;&lt;th&gt;Math.random();&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;35 }&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;6 &lt;/script&gt;&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;40&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;% &lt;/head&gt;&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	





## Quiz topics for next week

• For loops

