

	Map	Reduce	Filter
Preparation	<p>Write a simple function <code>FtoC(n)</code>, which takes a number expressing degrees Fahrenheit and converts it into degrees Celsius.</p> <pre>def FtoC(degreesF): return (degreesF - 32) * (5/9)</pre>	<p>Write a simple function <code>maxOfTwo(x,y)</code> that takes two numbers, <code>x</code> and <code>y</code>, as input and returns the largest of them.</p> <pre>def maxOfTwo(x, y): if x > y: return x else: return y</pre>	<p>Write a simple function <code>isOdd(n)</code> that takes a number and returns true if the number is odd.</p> <pre>def isOdd(n): return n % 2 == 1</pre>
Practice	<p>Write a function that takes a list <code>temp</code> of temperatures expressed in degrees Fahrenheit as input, returns the list of those temperatures expressed in degrees Celsius, and uses <code>map()</code> Python function to accomplish this task.</p> <pre>def list_FtoC(temp): tempMap = map(FtoC, temp) return list(tempMap)</pre>	<p>Write a function that takes list <code>nums</code> of numbers as input, returns maximum of that list, and uses <code>reduce()</code> Python function to accomplish this task.</p> <pre>def maxOfList(nums): return reduce(maxOfTwo, nums)</pre>	<p>Write a function <code>getOdds</code> that takes list <code>nums</code> of numbers as input, returns a list containing only odd numbers from the original list, and uses <code>filter()</code> Python function to accomplish the task.</p> <pre>def getOdds(nums): numFilter = filter(isOdd, nums) return list(numFilter)</pre>