





1 1.5

In [12]:	#Pass by Reference vs Pass by Value
	#In most cases python defaults to passing by reference #This means that when you say 'a = b' you are essentially telling the computer that they are the same thing #Whatever you do to b is also done to a
	a = [1,2,3,4,5] b = a
	print a,b
	#Delete the value 3 from the list a a.remove(3)
	print a,b
	[1, 2, 3, 4, 5] [1, 2, 3, 4, 5] [1, 2, 4, 5] [1, 2, 4, 5]
In [13]:	#To overcome this you have to trick the computer into duplicating the list
	<pre>a = [1,2,3,4,5] #This will copy the array from 'start_point:end_point', the default is the start/end of the list b = a[:]</pre>
	a.remove(3)
	print a,b
	[1, 2, 4, 5] [1, 2, 3, 4, 5]
In [14]:	#There some other tricks you can play with this
	a = [1,2,3,4,5]
	#To return the list in reverse #This is saying go through the whole list, but stepping one place backwards each time print a[::-1]
	#To return every other value print a[::2]
	[5, 4, 3, 2, 1] [1, 3, 5]
In [15]:	#Another python is to use sets #If you want to remove duplicates from a list you don't have to do a complicated algorithm
	a = [1,1,2,3,3,3,3,4,5,5,5]
	#To remove duplicates you can define the list as a set #Sets are mathematical objects that cannot have duplicates #Then you can redefine as a list #Doing this all at once
	<pre>print list(set(a))</pre>
	[1, 2, 3, 4, 5]
In [15]:	