

## **Overview**

- Asymptotic notation
- Insertion sort
- Divide and conquer: merge sort

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## 











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Code examples	
<ul> <li>What is the running time comple following code example?</li> </ul>	xity of the
<pre>for i in range(n):     for j in range(i, n):         //do something</pre>	
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Insertion Sort	
<pre>def insertionSort(alist):     for index in range(1,len(alist)):</pre>	
<pre>currentvalue = alist[index] position = index</pre>	
<pre>while position&gt;0 and alist[position-1]&gt;currentval alist[position]=alist[position-1] position = position-1</pre>	ue:
alist[position]=currentvalue	
<pre>alist = [54,26,93,17,77,31,44,55,20] insertionSort(alist) print(alist)</pre>	
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