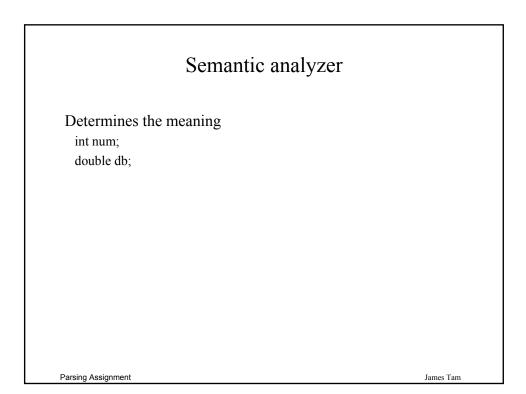
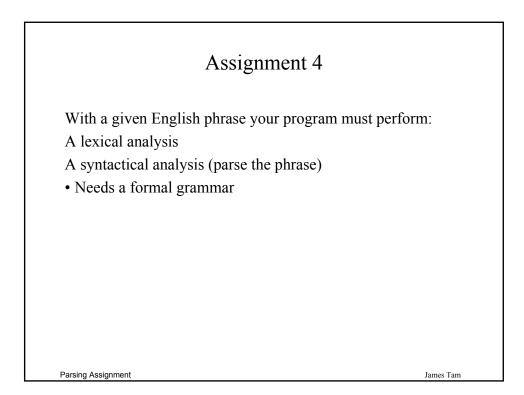
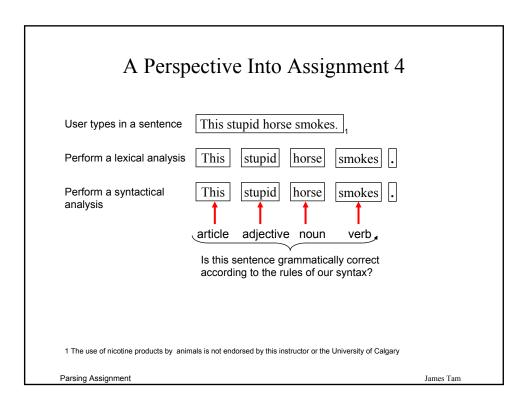
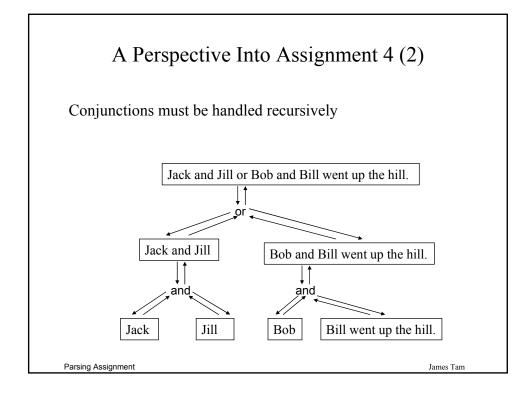


Syntax Analyzer (Parser)	
Analyzes the structure of the program in order to grout together related symbols	ıp
while (i < 5)	
{	
statement;	
statement;	
:	
}	
while (i < 5)	
statement;	
Parsing Assignment	James Tam

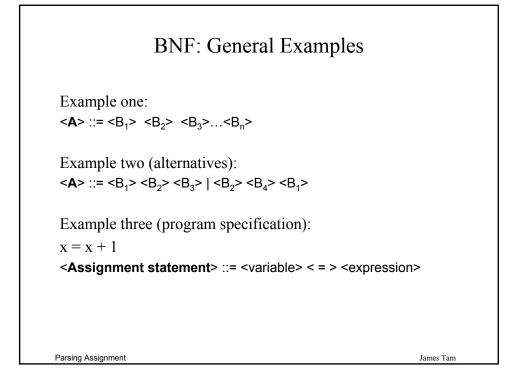


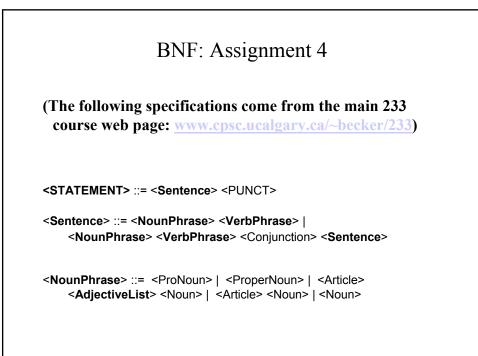






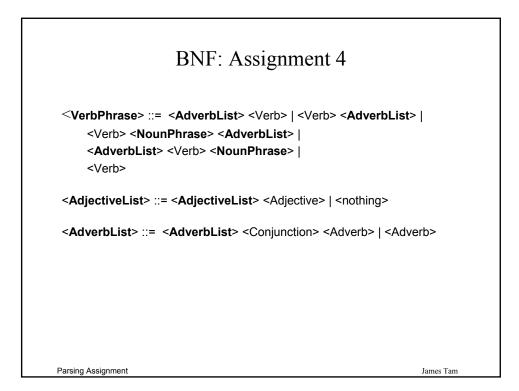
Backus-Naur Form (BNF)						
An examp	ble of a formal grammar					
Can be used in the fourth assignment to specify the syntax of the language (grammatically correct)						
Introduced by Jim Backus and developed by Pete Naur to specify the syntax rules for Algol 60						
Symbol	Meaning or usage					
\diamond	To group related categories of information					
	"OR" – to specify alternative options					
::=	"As defined as" – a way of specifying a					
	definition					





James Tam

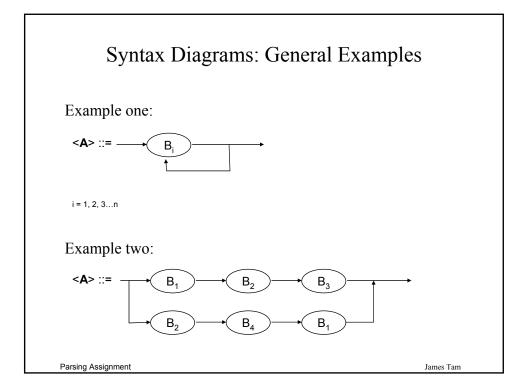
Parsing Assignment

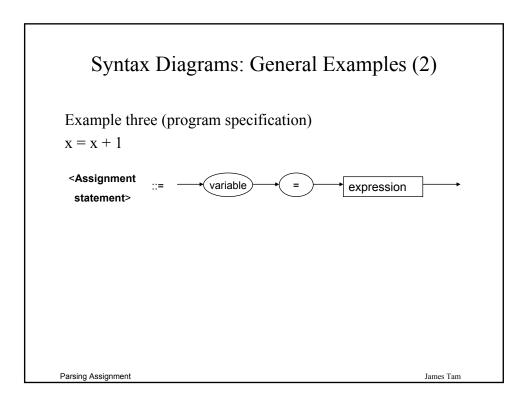


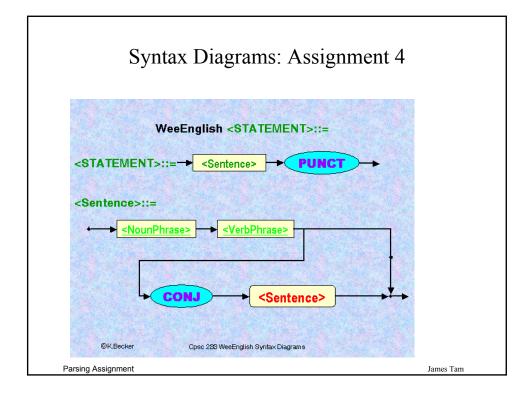
Syntax Diagrams					
An alterr	native method for representing a formal language				
Symbol	Meaning or usage				
::=	"As defined as" – a way of specifying a definition				
<>	A category of information that <i>can</i> be decomposed into it's constituent subcategories				
<>>	A category of information that <i>cannot</i> be decomposed into constituent subcategories				
	Indicates direction to read the flow of the diagram				

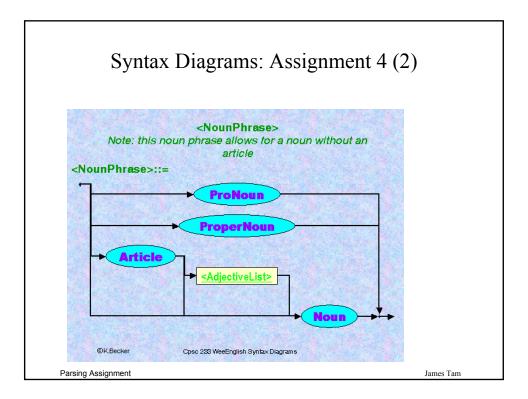
Parsing Assignment

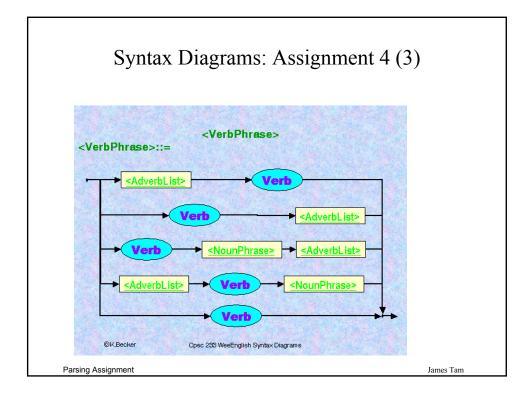
James Tam

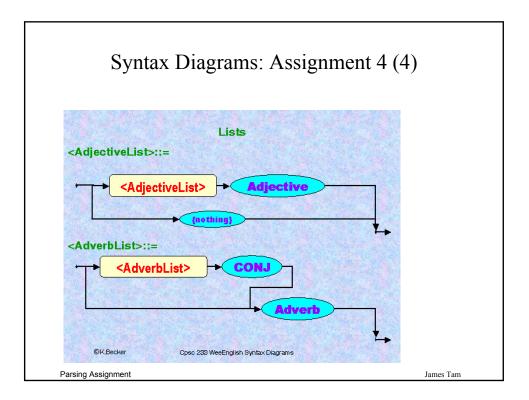


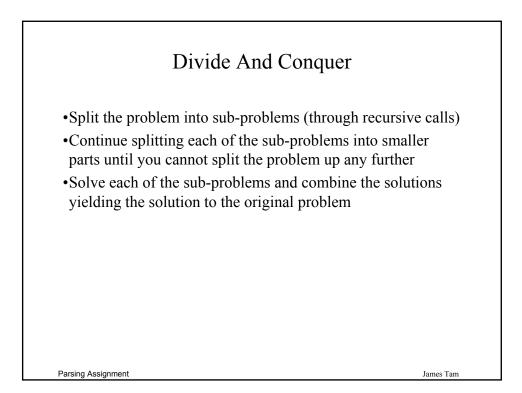




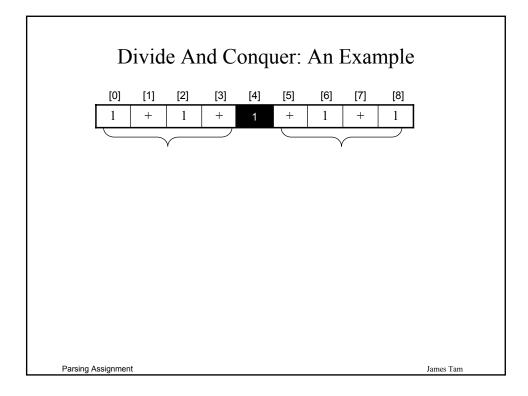


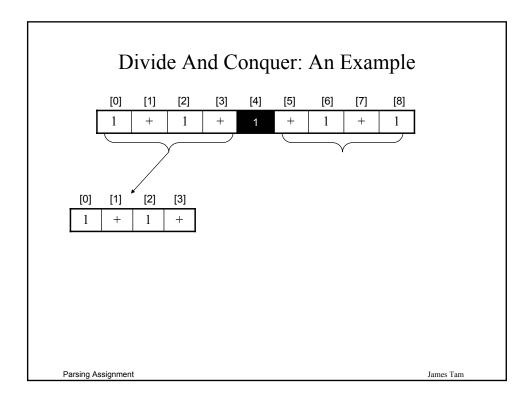


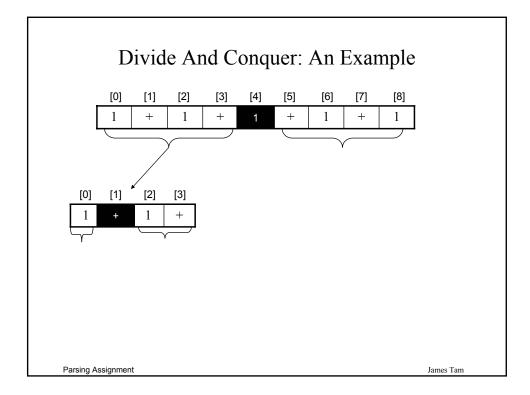


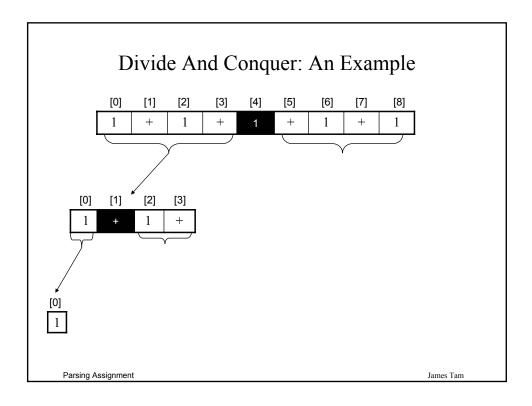


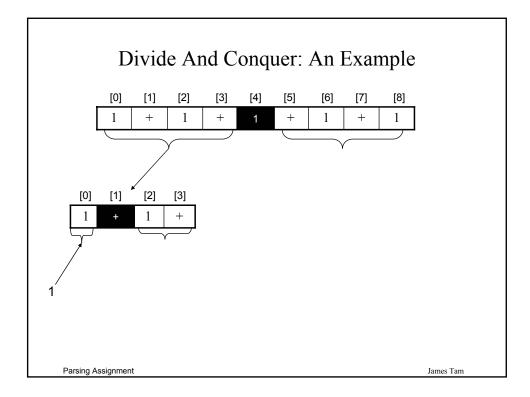
	D	ivid	e Ar	nd C	onq	uer:	An l	Exar	nple	
	[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	
	1	+	1	+	1	+	1	+	1	
Parsing	Assignmen	t								James Tam

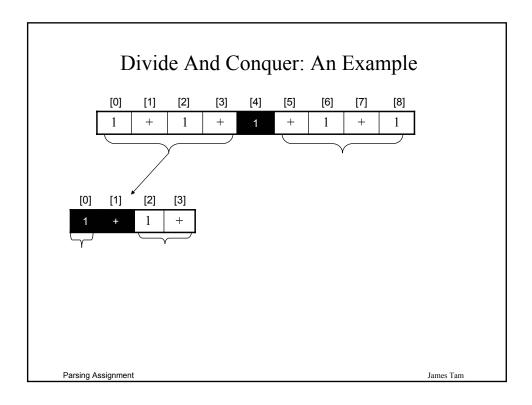


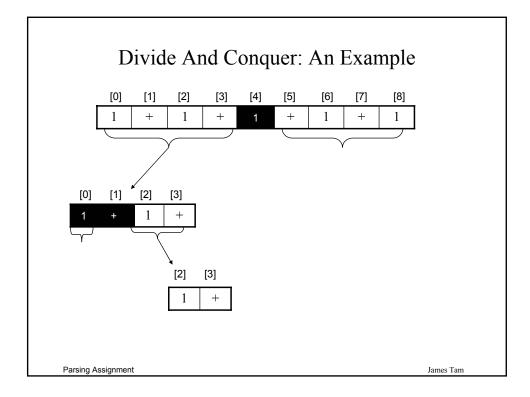


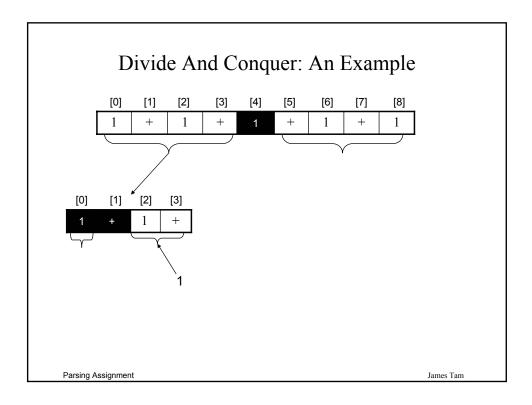


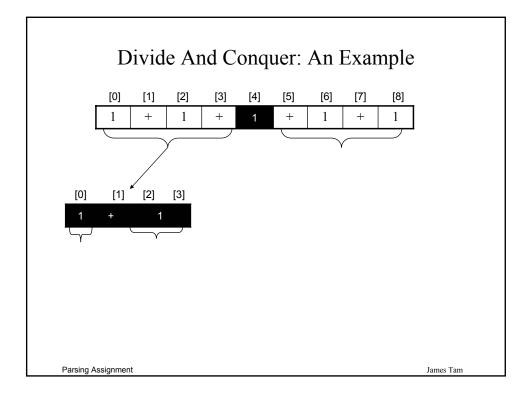


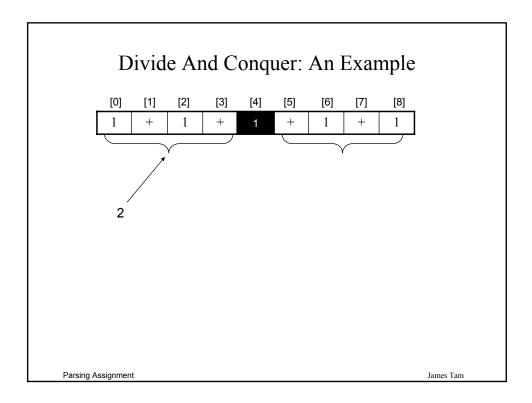


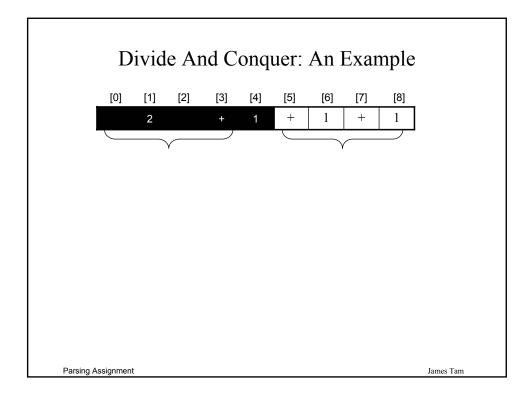


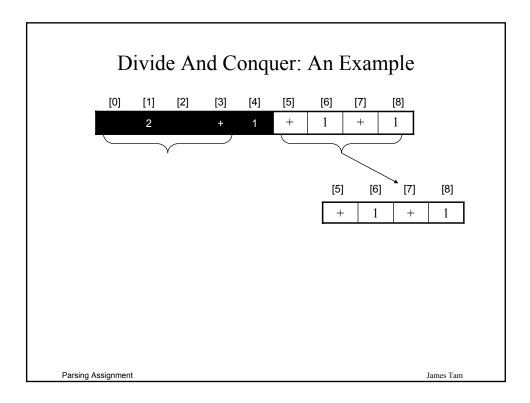


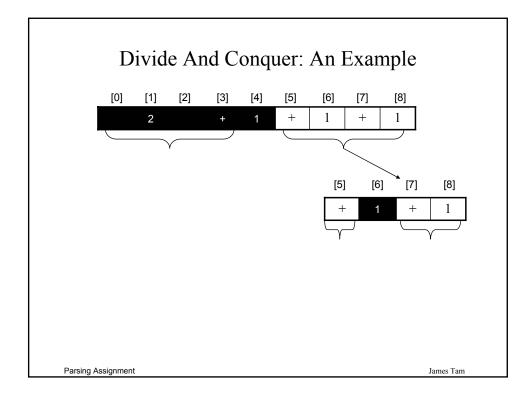


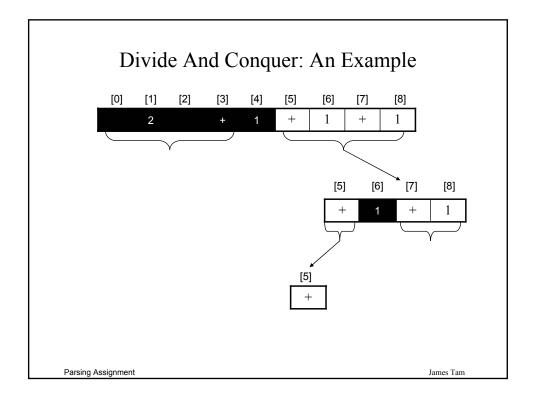


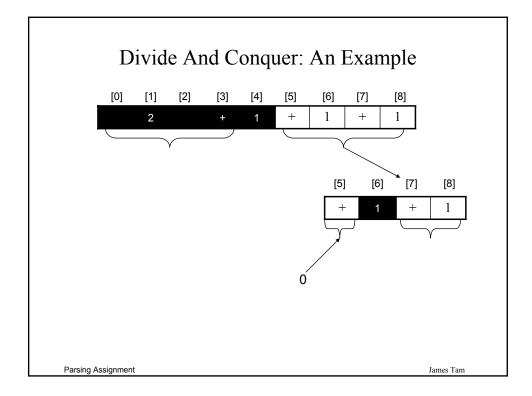


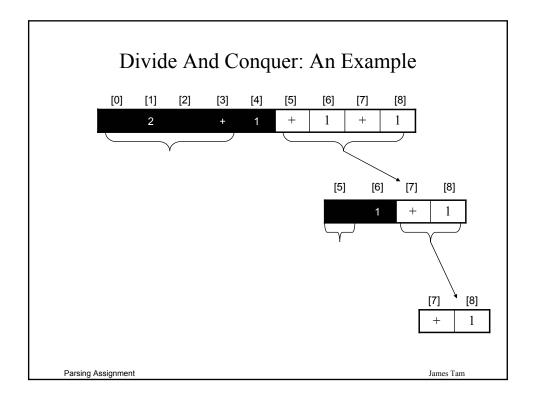


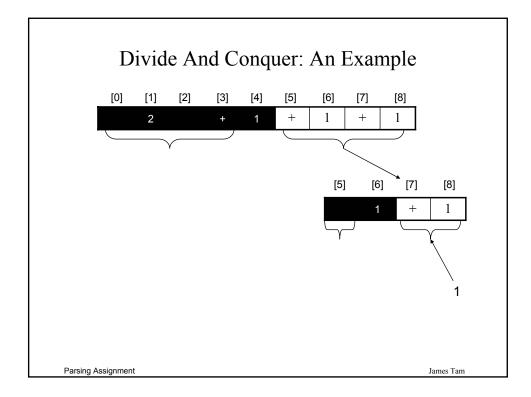


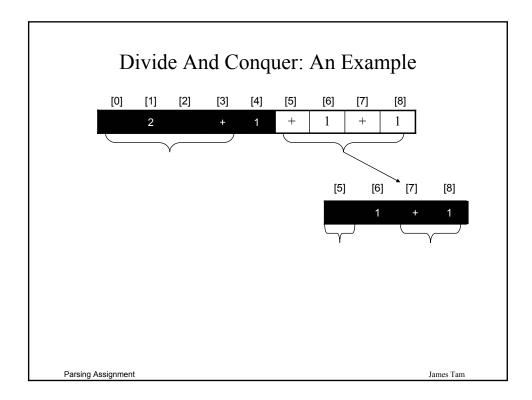


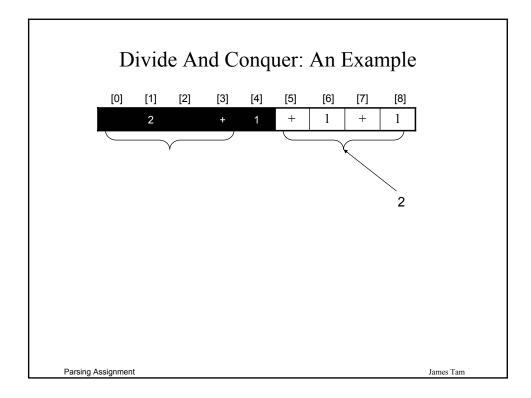


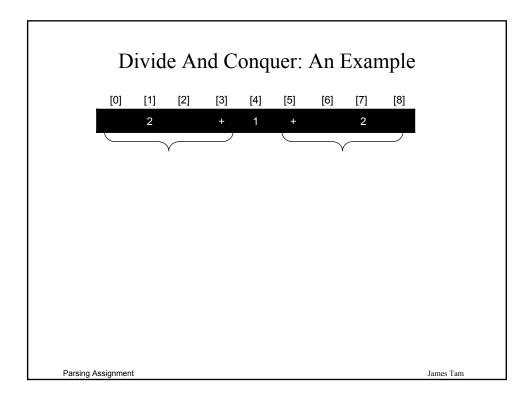


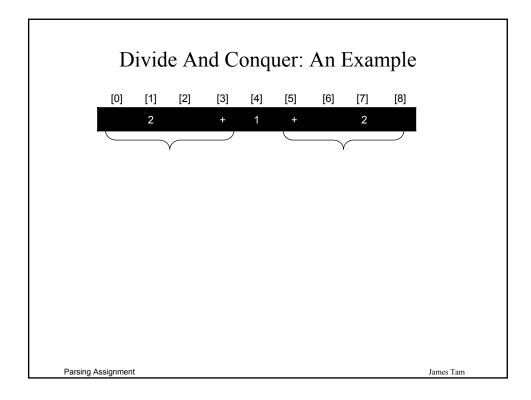


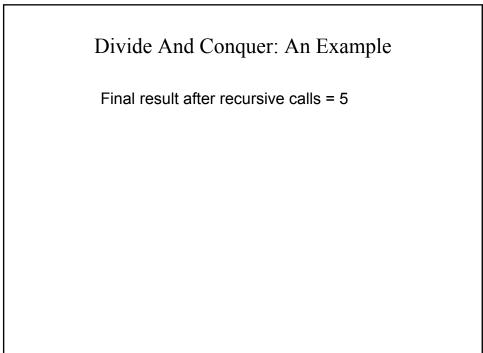


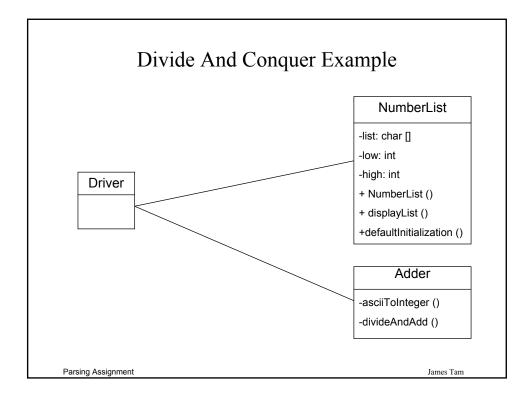


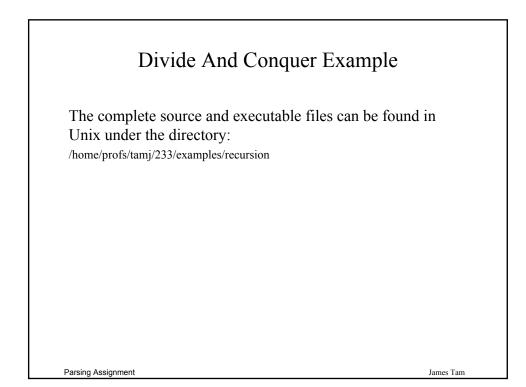


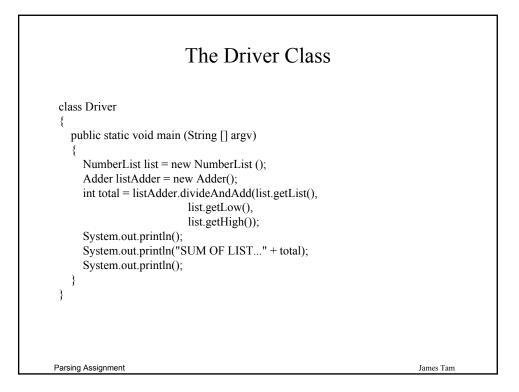












The NumberList Class						
class NumberList						
{						
private char [] list;						
private int low;						
private int high;						
public NumberList ()						
{						
int i, noElements;						
System.out.print("Enter number of array elements: ");						
high = Console.in.readInt();						
Console.in.readChar();						
high = high - 1;						
low = 0;						
list = new char [high+1];						
defaultInitialization();						
displayList();						
}						
Parsing Assignment	James Tam					

