

1. What are two features that must be found in every recursive method?	
<p>2. Write a recursive method <b>evenFactorial</b> which returns the even factorial of a number (that is, the product of all positive even integers less than or equal to n). The factorial of 0 is 1.</p> <pre>public static int evenFactorial(int n) {  } </pre>	<p>3. Write a recursive method <b>spaceIt</b> to print the digits of an integer on a single line with 2 spaces between each digit. So <code>spaceIt(123)</code> prints "1 2 3".</p> <pre>public static void spaceIt(int m) {  } </pre>
<p>4. Given the following array how many times would a recursive binary search method be called when searching for the value 21?</p> <pre>int[] array = {3, 6, 8, 11, 14, 16, 21, 22};</pre>	<p>5. Given the following array how many times would a recursive binary search method be called when searching for the value 6?</p> <pre>int[] array = {0, 1, 2, 3, 4, 5, 7, 8, 9, 9};</pre>
<p>6. What is returned by the call <code>mystery(4)</code>?</p> <pre>public static int mystery(int a) {     if(a&gt;11)         return 5;     return a + mystery(a+3); } </pre>	<p>7. What is returned by the call <code>mystery(6)</code>?</p> <pre>public static int mystery(int a) {     if(a==3)         return 1;     return a * mystery(a-1); } </pre>
<p>8. What is printed by the call <code>mystery(4)</code>?</p> <pre>public static void mystery(int a) {     System.out.print(a);     if(a&lt;7)         mystery(a+2); } </pre>	<p>9. What is returned by the call <code>mystery(4)</code>?</p> <pre>public static void mystery(int a) {     if(a&lt;7)         mystery(a+2);     System.out.print(a); } </pre>