

Name \_\_\_\_\_ Period \_\_\_\_\_

1. Indicate the stack and the output for the code below.

Code	Stack	Output
<pre> public static void showMe(int arg) {     if (arg &lt; 10)     {         showMe(arg + 1);     }     else     {         System.out.print(arg + " ");     } }  public static void main(String args[]){     showMe(0) } </pre>	<pre> ShowMe (9) showMe (8) showMe (7) showMe (6) showMe (5) showMe (4) showMe (3) showMe (2) showMe (1) showMe (0) </pre>	<pre> 10 </pre>

2. Indicate the stack and the output for the code below

Code	Stack	Output
<pre> public static void whatsItDo(String str) {     int len = str.length();     if (len &gt; 1)     {         String temp = str.substring(0, len - 1);         System.out.println(temp);         whatsItDo(temp);     } }  public static void main(String args[]){     whatsItDo("WATCH") } </pre>	<pre> whatsItDo ("W") whatsItDo ("WA") whatsItDo ("WAT") whatsItDo ("WATC") whatsItDo ("WATCH") </pre>	<pre> WATC WAT WA W </pre>

3. Indicate the stack and the output for the code below

Code	Stack	Output
<pre> public static void puf(int n) {     if(n == 1)     {         System.out.print("x");     }     else if( n%2 == 0) //n is even     {         System.out.print("{");         puf(n-1);         System.out.print("}");     }     else //n is odd     {         System.out.print("&lt;");         puf(n-1);         System.out.print("&gt;");     } } public static void main(String args[]){     puf(5); } </pre>	<pre> puf(1) puf(2) puf(3) puf(4) puf(5) </pre>	<pre> &lt;{&lt;{x}&gt;}&gt; </pre>

4. Indicate the stack and the output for the code below

Code	Stack	Output
<pre> public static void sort(int[] data) {     for (int j = 0; j &lt; data.length - 1; j++)     {         int m = j;         for (int k = j + 1; k &lt; data.length; k++)         {             if (data[k] &lt; data[m])                 /* Compare values */             {                 m = k;             }         }         int temp = data[m];         /* Assign to temp */         data[m] = data[j];         data[j] = temp;         /* End of outer loop */     } } public static void main(String args[]){     int[] iArr = {1, 5, 3};     sort(iArr); } </pre>		