

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 < 10) { showMe(arg + 1); } else { System.out.print(arg + " "); } } public static void main(String args[]){ showMe(0) }</pre>		

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

Code	Stack	Output
<pre>public static int adrml(int n) { if (n<=1) return n; else return n * adrml(n-2); } public static void main(String args[]){ adrml(6); }</pre>		
		/3

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

Code

```
public static int rig(int n) {  
    if ( n == 0 ) {  
        return 5;  
    } else if ( n == 1) {  
        return 8;  
    } else {  
        return rig(n - 1) - rig(n - 2);  
    }  
}  
  
public static void main(String args[]){  
    System.out.println( rig(4) );  
}
```

Stack

Output

/3

4. 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 > 1) { String temp = str.substring(0, len - 1); System.out.println(temp); whatsItDo(temp); } } public static void main(String args[]){ whatsItDo("WATCH") }</pre>		

5. 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("<"); puf(n-1); System.out.print(">"); } } public static void main(String args[]){ puf(5); }</pre>		

6. Complete the stack diagram for the code block shown, then indicate the output.

```
class Main {  
    public static void main(String[] args) {  
        System.out.println(Recursion.pls(4));  
    }  
}  
  
class Recursion{  
    public static int pls(int n)  
    {  
        if (n == 0)  
            return 5;  
        else if (n == 1)  
            return 11;  
        else  
            return pls(n - 1) + 2 * pls(n - 2);  
    }  
}
```

Stack

Output