Name	Period	

1. Refer to the code below,			
//Assume nextLine() and nextInt() are static methods in //a class named Scanner that reads a String and an integer //from the keyboard.			
<pre>Scanner rdr = new Scanner(System.in); String str = rdr.nextLine(); int j = rdr.nextInt();</pre>			
try {			
<pre>System.out.print(str.charAt(j));</pre>			
} catch(StringIndexOutOfBoundsException e) {			
<pre>System.out.print("Error: " + j);</pre>			
}			
(a) What is the output of the code above, given the input below?			
big mamma g 2			
	/1		
(b) What is the output of the code above, given the input below?			
big mamma Error: 22			
	/1		

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```
3. What is output by the code to the
    right if the static method called
    test() encounters the follow-
    ing line of code? Assume the test
    signature includes throws Num-
    berFormatException.

int j =
Integer.parseInt("Two
Thousand");

Error with number format
try{
    test();
}
catch(NumberFormatException e) {
    System.out.println("Error with number
    format");
}
catch(RuntimeException e) {
    System.out.println("Error");
}
```

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

6. Indicate the stack and the output for the code below		
Code	Stack	Output
public static void whatsItDo(String str)		
int len = str.length(); if (len > 1)		
<pre>String temp = str.substring(0, len - 1); System.out.println(temp); whatsItDo(temp);</pre>		
<pre>public static void main(String args[]){ whatsItDo("WATCH") }</pre>	whatsItDo("W") whatsItDo("WA") whatsItDo("WAT") whatsItDo("WATC") whatsItDo("WATCH")	WATC WAT WA

7. Indicate the stack and the output for the code below		
Code	Stack	Output
public static void puf(int n)		
if(n == 1)		
System.out.print("x");		
else if(n%2 = = 0) //n is even		
<pre>System.out.print("{"); puf(n-1); System.out.print("}");</pre>		
else //n is odd		
<pre>System.out.print("<"); puf(n-1); System.out.print(">"); } public static void main(String args[]){ puf(5); }</pre>	puf (1) puf (2) puf (3) puf (4) puf (5)	<{<{x}>>>

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