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.
Scanner rdr = new Scanner(System.in);
String str = rdr.nextLine();
int j = rdr.nextInt();
try
       System.out.print( str.charAt(j) );
} catch(StringIndexOutOfBoundsException e) {
      System.out.print("Error: " + j);
(a) What is the output of the code above, given the input below?
big mama
2
                                                                                /1
(b) What is the output of the code above, given the input below?
big mama
22
                                                                                /1
```

```
2. Refer to the code below,
//Returns the product of two integers represented as
//strings. If either string cannot be parsed,
//a message indicating why is printed
//If both are not numbers, returns 1.
public static int product(String str1, String str2) {
int prd = 1;
try {
      prd*=Integer.parseInt(str1);
     } catch(NumberFormatException e) {
      <*1>
     } try {
      prd*=Integer.parseInt(str2);
     } catch(NumberFormatException e) {
      <*1>
     }
      return prd;
```

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```
(a) What should replace <*1> in the code above to make it do what the remarks suggest?

/1

(b) What is returned by product ("two", "5")?

/1
```

```
3. What is output by the code to the
                                  try{
                                         test();
   right if the static method called
   test() encounters the following
   line of code? Assume the test sig-
                                 catch(NumberFormatException e) {
   nature includes throws Number-
                                        System.out.println("Error with number
   FormatException.
                                  format");
int i =
                                     catch(RuntimeException e) {
Integer.parseInt("Two
                                        System.out.println("Error");
Thousand");
                                                                                     /1
```

```
4. If the code designated by <*1> to the right does not throw any exceptions, which of the remaining code sections will execute?

| The code designated by <*1> to the right does not throw any exceptions, which of the remaining code sections will execute?

| Catch(RunTimeException e) {
| Catch(RunTimeExcep
```

```
5. The following code blocks could cause errors. Fix the code to prevent an error from occurring
class InfiniteLoop {
                                             class StackOverflow {
     public static void test(int j) {
                                                   public static void test(int i)
           for(int i = 1; i > 0; i++){
                                                   //Not correct as base condition
                System.out.println(j);
                                                   //leads to non-stop recursion if
                                                   //if i is positive
     }
                                                        if (i == 0)
}
                                                            return;
                                                        else
                                                            test(i++);
                                                   }
                                             }
```

Score _____/23

	/2
	/2

```
6. For each of the following code segments identify the unchecked error that would occur

(a) int[] myArray = {1, 2, 3}
    System.out.println(myArray[3]);

(b) System.out.println(10/0);

(c) String pointer = null;
    if(pointer.equals("this")
        //do something

(d) Object x = new Integer(0);
    System.out.println((String)x);

(e) String s = "Hello";
    System.out.println(s.charAt(5));
```

```
7. For each of the following unchecked errors, write a try-catch block to catch the error.

int[] myArray = {1, 2, 3}

System.out.println(myArray[3]);
```

Score _____/23

System.out.println(10/0);	
Ctring pointer - pull	
<pre>String pointer = null; if(pointer.equals("this")</pre>	
//do something	
77 do Something	
Object x = new Integer(0);	
<pre>System.out.println((String)x);</pre>	
String s = "Hello";	
System.out.println(s.charAt(5));	
	/10
	/10

Score _____/23