Name _____ Period _____

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**Skill 26.3 Exercise 1**

Complete the stack diagram for the code block shown

| | **Stack** |
|---|---|
| ```java
class Main {

public static void main(String[] args) {
        Recursion.reduceByOne(4);
    }
}


class Recursion{


public static void reduceByOne(int n){
        if(n > 0){
                reduceByOne(n-1);
        }
    }
}
``` | |

---

**Skill 26.4 Exercise 1**

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

```java
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);
    }
}
```

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| Stack |
| --- |
| |

| Output |
| --- |
| |

| Skill 26.4 Exercise 2 | | |
| --- | --- | --- |
| Complete the stack diagram for the code block shown, then indicate the output. | | |
| <br>```<br>class Main {<br>public static void main(String[] args) {<br><br>        Recursion.homer(9));<br>    }<br>}<br><br>class Recursion{<br>public static void homer(int n)<br>{<br>    if (n <= 1)<br>        System.out.print(n);<br>    else<br>        homer(n / 2);<br><br>System.out.print("," + n);<br><br>}<br>``` | **Stack** | **Output** |

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