

II. What is the output of the following code fragment? (2.5 pts) 4) \_\_\_\_\_

sum      innerCount      outerCount

```
int sum = 0;
int outerCount = 1;
while (outerCount <= 4)
{
    int innerCount = 1;
    while (innerCount <= outerCount)
    {
        sum = sum + innerCount;
        innerCount++;
    }
    outerCount++;
}
System.out.println(sum);
```

III. Given the program segment below answer the following questions (1 point each)

```
int row = 1;
System.out.println("The");
while (row <= 20)
{
    System.out.println("Moody");
    int column = 1;
    while (column <= 50)
    {
        System.out.print("Blues ");
        column++;
    }
    System.out.println( );
    row++;
}
```

- 1) How many times will the word "The" be printed? 1) \_\_\_\_\_
- 2) How many times will the word "Moody" be printed? 2) \_\_\_\_\_
- 3) How many times will the word "Blues" be printed? 3) \_\_\_\_\_
- 4) At the conclusion of this program segment what value is stored in row? 4) \_\_\_\_\_
- 5) At the conclusion of this program segment what value is stored in column? 5) \_\_\_\_\_

# AP Chapter 6 Worksheet 3 Nested while

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Pts: 10

Name \_\_\_\_\_

class hour \_\_\_\_\_

- I. Write the exact output of the following partial program showing the memory simulation off to the right. (2.5 points)

```
int row = 1;
while (row <= 3)
{
    int column = 1;
    while (column <= 4)
    {
        System.out.print(row * column + "   "); //4 spaces
        column++;
    }
    System.out.println( );
    row++;
}
```

row                      column

Write the output below. (Note: The first two lines below only show the column numbers.)

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

over