Worksheet: 2D Arrays 2 Name: _____

```
double[ ][ ] soyBean = new double[2][3];
int[ ][ ] limaBean = new int[4][2];

for(int i=0 ; i<=soyBean.length-1 ; i++)
    for(int j=0 ; j<=soyBean[i].length-1 ; j++)
        soyBean[i][j]=2.3*I;

for(int i=0 ; i<=limaBean.length-1 ; i++)
    for(int j=0 ; j<=limaBean[i].length-1 ; j++)
        limaBean[i][j]=2*i+5;
```

1. How many elements are stored in the soyBean array?
2. How many elements are stored in the limaBean array?
3. What does the soyBean array look like after the above code is executed (write it out in row-by-column format)?

4. What does the limaBean array look like after the above code is executed (write it out in row-by-column format)?

5. What is the value of soyBean[2][1]+limaBean[3][0]?
6. What is the value of soyBean[0][1]-limaBean[2][1]?
7. Write three lines of code (using nested for-loops) that will change all the elements of the soyBean array to 3.14.

8. What will the following code output?

```
int greenBean = 0;
for(int i=0 ; i<=limaBean.length-1 ; i++)
    for(int j=0 ; j<=limaBean[i].length-1 ; j++)
        greenBean += limaBean[i][j];
System.out.print(greenBean);
```

9. Write the lines of code that would efficiently add all the elements of the soyBean array and store the answer into a variable called snowPea.

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