| 1. Write an enhanced for loop which prints the contents of |
|--|
| this 2D double array in columns and rows with a space |
| between each value as shown to the right. |

```
double[][] nums = //contains valid data;
```

(Sample output only; do not assume **nums** has these dimensions.)

```
1.1 2.3 1.5 6.2 0.9 9.1
1.1 2.3 1.5 6.2 0.9 9.1
1.1 2.3 1.5 6.2 0.9 9.1
```

2. Create a 2D int array that is 5 rows by 10 columns:

3. Write the default value of each type of 2D array:

```
double:
int:
String:
Frog:
```

4. Write an array initializer that creates a 2D String array that contains these values arranged as shown (each letter is its own element):

```
c a t
d o g
```

5. Without looking at your repl from Monday, given the Light class to the right, write code to create a 5 by 100 2D Light array named **partyLights** of instantiated Light objects.

```
public class Light
{
    private String color;

    public Light()
    {
        int c = (int) (Math.random()*3);
        if(c==0)
            color="red";
        else if(c==1)
            color="green";
        else
            color="blue";
    }

    public String getColor()
    {
        return color;
    }
}
```

| 6. Write a static int method columnCount that searches a 2D Light object array of any size and returns |
|---|
| how many columns in the array happen to be all the same color. |
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| 7. Write a static boolean method "eachColorPresent" which accepts a 2D array of Light objects and returns |
| |
| true if the 2D array contains at least one of each color (red, green blue), false otherwise. |
| true if the 2D array contains at least one of each color (red, green blue), false otherwise. |
| true if the 2D array contains at least one of each color (red, green blue), false otherwise. |
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