day74 Arduino still more coding
Due Thursday 3/10 (6th period), Friday 3/11 (7th period)

First, work your way through our day74 review document.

Then, finish your day72 more coding project and turn it in.

Then start today's assignment: day74 Arduino still more coding

1. Open a new program. Name it "day74 still more coding"

Put your name in a comment at the top. I will only be giving you credit if your name is in the file name or in a comment at the top or both.

In the setup() function, put the following:

```
Serial.begin(9600);
```

In the loop() function put this:

```
Serial.println("still more coding, <your name>"); //where <your name> is your actual name
delay(3000);
```

Upload your program. It should print the line above once every 3 seconds.

Above the delay call, but inside the loop() function, write a for loop that goes from 0 to 20, going up by 1 each time. Use two print lines, one to print the number and one to print a space after it so that all the numbers show on one line like this:

```
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```

After the for loop, print a blank line.

2. Above the delay call, but below your other code, print this using a single line of code:

```
                I
        hope
    you
have
    a
        great
                weekend!
```

That's three tabs before I and weekend, two tabs before hope and great, one tab before you and a, and no tabs before have.

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3. Write a for loop that goes from 70 to 0 backwards by 7s. Inside the loop use an if statement print a note if your loop variable is divisible by 3. Use a second if statement to print a note if i is less than 10. Make the second statement in all caps. You should get the following notes:

```
63 is divisible by 3
42 is divisible by 3
21 is divisible by 3
7 IS LESS THAN 10!
0 is divisible by 3
0 IS LESS THAN 10!
```

4. Turn the light on for 1 second, then turn it off. Can you remember what you have to put into the setup() function if you want to turn a light on? Look it up in a previous program.

5. Are you still adding your new parts ABOVE the delay(3000) line? If not, fix that. Also, make your code pretty by typing Control-T regularly.

Last part for today:

Write a for loop that starts at 101, runs as long as the variable is less than 400, and goes up by 9. Inside the for loop print the variable if it is an odd number, printing the numbers in five columns. Your output should look like this:

```
101 119 137 155 173
191 209 227 245 263
281 299 317 335 353
371 389
```

You will need to make a count variable to keep track of how many values you have printed, and do %5 with that variable, not your for loop variable.

Call me over to check you off when you are done. Also turn this in on the Google Classroom when you are done.