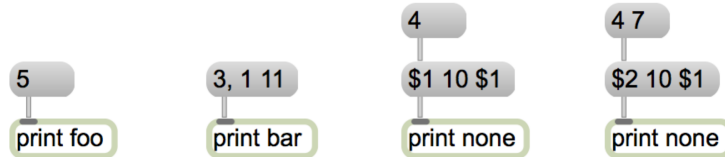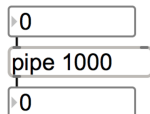# Midterm Practice Questions

Music 4745

Student's Name:

Beneath each of the four `print` objects below, write what shows up in the Max window after the user clicks once on the top message box above the `print` object. (That is, write what shows up in the Max window after the user clicks on the "5" "3, 1 11" "4" and "4 7" message boxes.) [**/12 pts**]

5	3, 1 11	4	4 7
		$1 10 $1	$2 10 $1
print foo	print bar	print none	print none

Explain the difference between the `random`, `urn`, and `drunk` objects. [**/9 pts**]
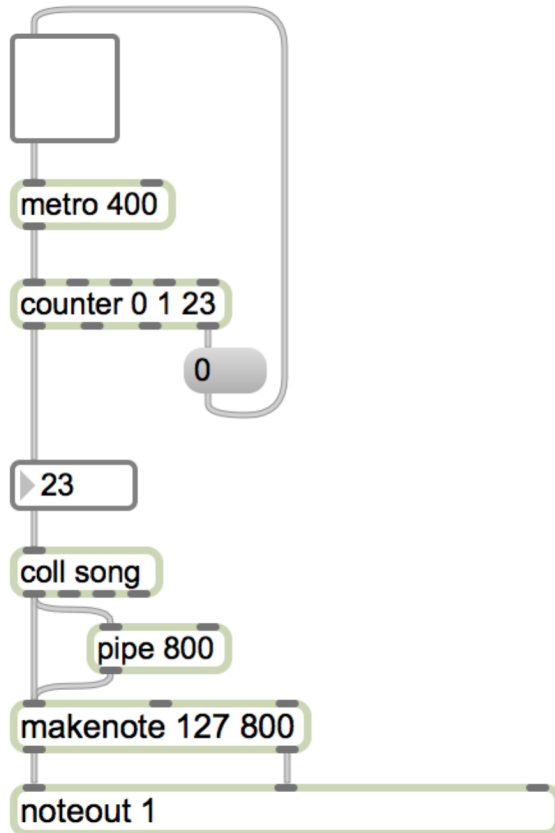
What does the `pipe` object do in this case? Write at least two full sentences, and be as precise as you can. [**/4 pts**]

```
0
pipe 1000
0
```

Describe a scenario in which it would be very helpful to create an abstraction. [**/5 pts**]

What is the difference between a subpatch and an abstraction?   [**/4 pts]**

Next to each of the nine objects in the following patch, write a sentence describing what that object does in this patch.   [**/18 pts]**

```
[           ]

metro 400

counter 0 1 23

    0

▶ 23

coll song

    pipe 800

makenote 127 800

noteout 1
```

Bonus. What song is this and what does the pipe object do musically in the context of the song?
[**/6 pts]**

Here are the contents of the `coll` object from the above patch:

```
            song.txt
 1  1, 55;
 2  2, 57;
 3  3, 55;
 4  4, 60;
 5  5, 59;
 6  6, 59;
 7  7, 55;
 8  8, 57;
 9  9, 55;
10  10, 62;
11  11, 60;
12  12, 60;
13  13, 55;
14  14, 67;
15  15, 64;
16  16, 60;
17  17, 59;
18  18, 57;
19  19, 65;
20  20, 64;
21  21, 60;
22  22, 62;
23  23, 60;
24
Insertion Point Line: 1
```