**CMSC 206: Data Structures**

**Aliasing**

Assume the code below has access to the Counter class (available from the course syllabus). Draw a memory diagram as it would be after each snippet of code is run. Consider the snippets to be independent; that is, one does not flow into another.

1. int a = 5;

int b = 6;

int c = 7;

1. int a = 5;

int b = a;

a = 8;

1. int a = 5;

int b = a;

b = 8;

1. Counter a = new Counter(5);

Counter b = new Counter(6);

a.increment();

1. Counter a = new Counter(5);

Counter b = new Counter(5);

a.increment();

1. Counter a = new Counter(5);

Counter b = a;

a.increment();

1. Counter a = new Counter(5);

Counter b = a;

b.increment();

1. Counter a = new Counter(5);

Counter b = a;

a.increment();

b.increment();

1. Counter a = new Counter(5);

Counter b = a;

a.increment();

b = new Counter(8);

b.increment();

1. Counter a = new Counter(5);

Counter b = a;

a.increment();

a = new Counter(8);

b.increment();