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;

2. int a = 5;
   int b = a;
   a = 8;

3. int a = 5;
   int b = a;
   b = 8;

4. Counter a = new Counter(5);
   Counter b = new Counter(6);
   a.increment();

5. Counter a = new Counter(5);
   Counter b = new Counter(5);
   a.increment();
6. Counter a = new Counter(5);
   Counter b = a;
   a.increment();

7. Counter a = new Counter(5);
   Counter b = a;
   b.increment();

8. Counter a = new Counter(5);
   Counter b = a;
   a.increment();
   b.increment();

9. Counter a = new Counter(5);
   Counter b = a;
   a.increment();
   b = new Counter(8);
   b.increment();

10. Counter a = new Counter(5);
    Counter b = a;
    a.increment();
    a = new Counter(8);
    b.increment();