CSSE220 Fall 2025-26

Lab08

```
Q1. double pi = 3.14;
Q2.
int[] arr = new int[3];
arr[1] = 42;
Q3.
class Bar {
  public int value;
  public Bar() {
    value = 100;
  }
}
Bar b1 = new Bar();
Bar b2 = new Bar();
b2 = b1;
Q4 class Foo {
  public int x;
  public Foo() {
    x = 0;
  }
}
Foo[] fooArr = new Foo[2];
fooArr[0] = new Foo();
fooArr[1] = fooArr[0];
fooArr[0].x = 20;
```

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Use the following classes:

```
class Ninja {
                                         class Pirate {
   private String name;
                                             private Ninja enemy;
   private int level;
                                             public Pirate(Ninja n) {
   public Ninja(String name) {
                                                 this.enemy = n;
       this.name = name;
       this.level = 1;
                                             public Pirate() {
   }
                                                this.enemy = new Ninja("Foo");
   public void setLevel(int level) {
       this.level = level;
                                         }
   }
}
```

Q5. Pirate p = new Pirate(null);

```
Q6. String name = "Foo";
Ninja[] ninjas = new Ninja[3];
for(int i = 0; i < 3; i++) {
        ninjas[i] = new Ninja(name);
        ninjas[i].setLevel(i);
}</pre>
```

```
Q7. Ninja bar = new Ninja("Bar");
Ninja[] ninjas = new Ninja[3];
for(int i = 0; i < 3; i++) {
        ninjas[i] = bar;
        ninjas[i].setLevel(i);
}</pre>
```

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Write code you would put in main to call fun() (hint: it's not static, so you'll need to construct an object first)

Write code you would put in main to call staticFun()

Why couldn't you change the function getVar() to be static?

Q9. What gets printed when you execute the following code: