2 Raining Cats and Dogs

Assume that `Animal` and `Cat` are defined as above. What will be printed at each of the indicated lines?

```
1   public class TestAnimals {
2       public static void main(String[] args) {
3           Animal a = new Animal("Pluto", 10);
4           Cat c = new Cat("Garfield", 6);
5           Dog d = new Dog("Fido", 4);
6
7           a.greet();          // (A) _____
8           c.greet();          // (B) _____
9           d.greet();          // (C) _____
10
11          a = c;
12          a.greet();          // (D) _____
13          ((Cat) a).greet();  // (E) _____
14      }
15  }
16
17  public class Dog extends Animal {
18      public Dog(String name, int age) {
19          super(name, age);
20          noise = "Woof!";
21      }
22
23      @Override
24      public void greet() {
25          System.out.println("Dog " + name + " says: " + makeNoise());
26      }
27
28      public void playFetch() {
29          System.out.println("Fetch, " + name + "!");
30      }
31  }
```

Consider what would happen we added the following to the bottom of `main`:

```
a = new Dog("Hieronymus", 10);
d = a;
```

Why would this code produce a compiler error? How could we fix this error?