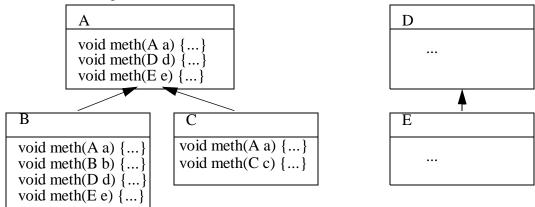
Overloading/Overriding

Consider the following inheritance hierarchies:



What methods get called for each of the 6 method calls in the program fragment below? (Make sure to give the full signature of the method, as well as the class it's in.)

B b = new B();

A a=b;

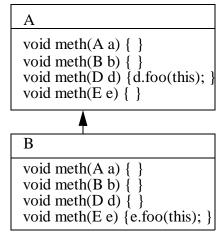
C c = new C();

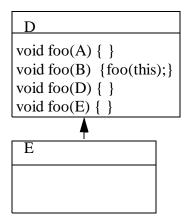
E e = new E();

D d = e;

- a) a.meth(a);
- b) a.meth(b);
- c) ((A) c).meth(a);
- d) c.meth((A)c);
- e) a.meth(d);
- f) a.meth(e);

Consider the following inheritance hierarchies:





(We don't care about any of the code or methods not shown.) These classes are used to instantiate objects as follows:

```
B b = new B();
A a= b;
E e = new E();
D d = e;
```

Which of the shown methods get called in the following cases (mention all called in order, and show each method's full signature and class):

- a) a.meth(d);
- b) a.meth(a);
- c) d.foo(b);
- d) e.foo(b);
- e) a.meth(e);
- f) e.foo(d);