

```
public class A extends B {
    public void method2() {
        System.out.print("a 2 ");
        method1();
    }
}
```

```
public class B extends C {
    public String toString() {
        return "b";
    }

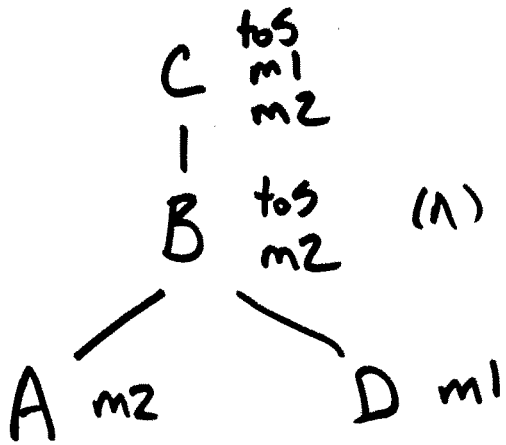
    public void method2() {
        System.out.print("b 2 ");
        super.method2();
    }
}
```

```
public class C {
    public String toString() {
        return "c";
    }

    public void method1() {
        System.out.print("c 1 ");
    }

    public void method2() {
        System.out.print("c 2 ");
    }
}
```

```
public class D extends B {
    public void method1() {
        System.out.print("d 1 ");
        method2();
    }
}
```



	A	B	C	D
tos	b	b	c	b
m1	c1	c1	c1	d1 m2
m2	a2 m1	b2 c2	c2	b2 c2

Given the classes above, what output is produced by the following code?

```
C[] elements = {new A(), new B(), new C(), new D()};
for (int i = 0; i < elements.length; i++) {
    System.out.println(elements[i]);
    elements[i].method1();
    System.out.println();
    elements[i].method2();
    System.out.println();
    System.out.println();
}
```

Handwritten output for the code above:

```

b
c 1
a 2 c 1

b
c 1
b ? c ?

c
c 1
c 2

b
d 1 b 2 c 1
b 2 c 2
  
```