CSC-133 (Fall 2018)
Attendance Quiz # 3

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Inheritance and Polymorphism (20 points). Consider the following classes. In the table below, indicate in the right-hand column the output produced by the statement in the left-hand column. If the statement produces more than one line of output, indicate the line breaks with slashes as in "a / b / c" to indicate three lines of output with "a" followed by "b" followed by "c". If the statement causes an error, fill in the right-hand column with the phrase "error" to indicate this.

"S.o.pln" means "System.out.println".

```
public class Eye extends Mouth
{
    public void method1() {
        S.o.pln("Eye 1");
        super.method1();
    }
}
public class Mouth {
    public void method1() {
        S.o.pln("Mouth 1");
    }
    public void method2() {
        S.o.pln("Mouth  2");
        method1();
    }
}
public class Nose extends Eye
    { public void method1() {
        S.o.pln("Nose 1");
    }
    public void method3() {
        S.o.pln("Nose 3");
    }
}
public class Ear extends Eye
    { public void method2() {
        S.o.pln("Ear 2");
    }
    public void method3() {
        S.o.pln("Ear 3");
    }
}
```

The following variables are defined:

```
Mouth var1 = new Nose();
Ear var2 = new Ear();
Mouth var3 = new Eye();
Object var4 = new Mouth();
Eye var5 = new Nose();
Mouth var6 = new Ear();
```

Statement	Output
var1.method1();	"Nose 1"
var2.method1();	"Eye 1" / "Mouth 1"
var3.method1();	"Eye 1" / "Mouth 1"
var1.method2();	"Mouth 2" / "Nose 1"
var2.method2();	"Ear 2"
var3.method2();	"Mouth 2" / "Nose 1" / Mouth 1"
var4.method2();	Error
var5.method2();	"Mouth 2" / "Nose 1"
var6.method2();	"Ear 2"
var1.method3();	Error