

hw5_problem1

1.

X m(X y, String s) and Y m(Object Y, Object s) are function subtypes.

`X m(X y, String s)` Override, since the parameters within the function are the same as the parameters in the class A Object m function.

`Y m(Object y, Object s)` Overload

`Z m(Y y, String s)` Overload, Both are overload since the only commonality between the two is the function name. Since the parameters are different, they are overloading.

2.

Isosceles Triangle is not a true subtype, since $c=c$ in the regular triangle but $c=b$ in the isosceles

Squid is not a true subtype, since a squid has 0 neck bones, which doesn't meet the requirement of a vertebrate.

Human is a true subtype, since there is no such thing as a human with 0 neck bones.

Mountain Bike is a true subtype, since all mountain bike has a startCadence, StartSpeed, and startGear.

ConcurrentAccount is a true subtype since the only difference is an exception thrown if multiple deposits happen, the effects are the same.