

Challenge: A Puzzle

Consider the **partially** filled classes for A and B as defined below:

```
1 public class A {
2     public static void main(String[] args) {
3         ___ y = new ___();
4         ___ z = new ___();
5     }
6
7     int fish(A other) {
8         return 1;
9     }
10
11    int fish(B other) {
12        return 2;
13    }
14 }
15
16 class B extends A {
17     @Override
18     int fish(B other) {
19         return 3;
20     }
21 }
```

Note that the only missing pieces of the classes above are static/dynamic types!
Fill in the **four** blanks with the appropriate static/dynamic type — A or B — such that the following are true:

1. `y.fish(z)` equals `z.fish(z)`
2. `z.fish(y)` equals `y.fish(y)`
3. `z.fish(z)` does not equal `y.fish(y)`