



Covariant Return Types

by aa1992

Problem

Submissions

Leaderboard

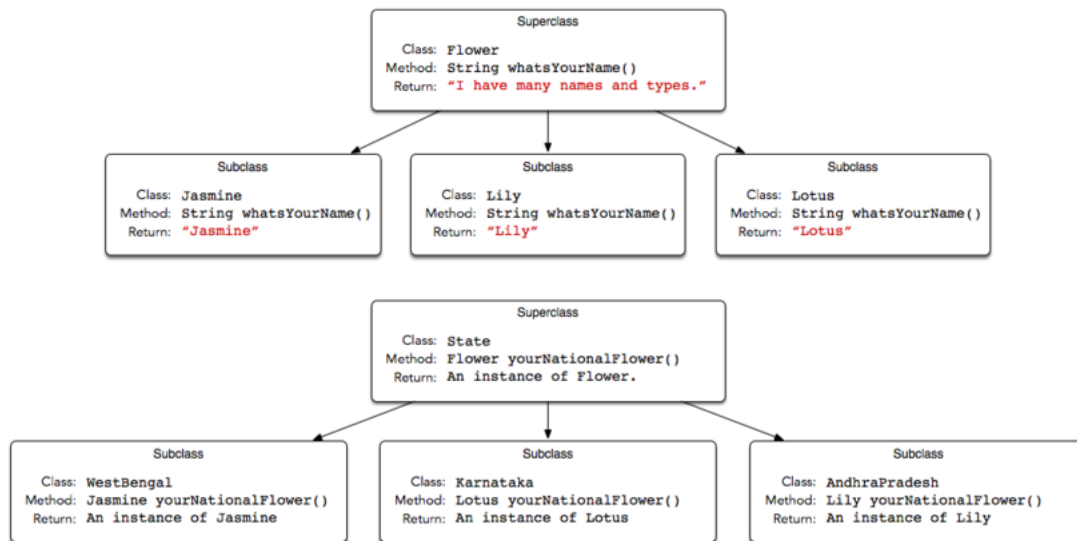
Discussions

Editorial

Java allows for [Covariant Return Types](#), which means you can vary your return type as long you are returning a subclass of your specified return type.

[Method Overriding](#) allows a subclass to *override* the behavior of an existing superclass method and specify a return type that is some subclass of the original return type. It is best practice to use the `@Override` [annotation](#) when overriding a superclass method.

Implement the classes and methods detailed in the diagram below:



Your implementation is checked by a hidden *Solution* class, where the *main* method takes the name of a state and prints the national flower of that state using the classes and methods written by you.

Note: Do not use access modifiers in your class declarations.

Resources

[Covariant Return Type](#)[Java Covariant Type](#)

Input Format

The hidden code checker reads a single string denoting the name of a subclass of *State* (i.e., `WestBengal`, `Karnataka`, or `AndhraPradesh`), then tests the methods associated with that subclass. You are not responsible for reading any input from stdin.

Output Format

Output is handled for you by the hidden code checker, which creates the object corresponding to the input string's class name and then prints the name returned by that class' national flower's *whatsYourName* method. You are not responsible for printing anything to stdout.

Sample Input

AndhraPradesh

Sample Output

Lily

Explanation

An *AndhraPradesh* object's *yourNationalFlower* method returns an instance of the *Lily* class, and the *Lily* class' *whatsYourName* method returns *Lily*, which is printed by the hidden code checker.

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Submissions: [4829](#)

Max Score: 20

Difficulty: Easy

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Java 7 ⌵ ⛶ ⚙️

1
2
3

//Write your code here

Line: 3 Col: 1

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