

Example: Parent-Child-Grandchild

Consider the following three classes on the left and the five example test cases to the right.
Write the output for each of the test cases.

Class definitions**Test Cases**

<pre> public class Parent { public void first() { System.out.print("P"); second(); } public void second() { System.out.print("Q"); } } public class Child extends Parent { public void first() { super.first(); } public void second() { super.second(); System.out.print("R"); } } public class Grandchild extends Child { public void first() { super.first(); System.out.print("S"); } public void second() { super.second(); System.out.print("T"); } } </pre>	<pre> Parent a = new Parent(); a.first(); </pre>
	<pre> Child b = new Child(); b.first(); </pre>
	<pre> Child c = new Child(); c.second(); </pre>
	<pre> Grandchild d = new Grandchild(); d.second(); </pre>
	<pre> Grandchild e = new Grandchild(); e.first(); </pre>