The engineer violated "design by contract" since he tried to change the behavior of the <code>getArea()</code> method inherited from the superclass. The new <code>getArea()</code> lost the guarantee and broke the postconditions. The result of <code>Square().getArea()</code> is no longer correct, when system constraints change. The engineer redefined the abstraction of <code>getArea()</code>, which will increase the cost of system maintenance.