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2. a)

JComponent

Border

Bevel

Line

Compound

Border

Titled

Border

b) Border is a strategy pattern with TitledBorder, CompoundBorder, LineBorder and BevelBorder. And JComponent uses this border with the “setBorder(Border b)” method.

c) Border is the component and LineBorder, BevelBorder are the base classes. TitledBorder and CompoundBorder are decorators because they take in different borders for constructors while they also themselves are borders.

3. a) Java chose the first method of decorating a border not a component. The borders themselves are decorating on top the base border rather than interfering with any JComponents.

b)

JComponent

JTextField

JBevelBorder

JTitleBorder

JLineBorder

c)

JFrame frame = **new** JFrame();

JPanel p = **new** JPanel();

JComponent c = **new** JTextField();

c = **new** JLineBorder(c, Color.green, 5);

c = **new** JLineBorder(c, Color.red, 5);

p.add(c);

frame.setContentPane(p);

frame.setVisible(**true**);

frame.pack();