

```

public static void main (String... args) {
    Circle circle1 = new Shape(19);           // Shape circle1 = new Circle(19);

    Circle is subtype of Shape. (variables can contain objects of their
    type or their subtypes. NOT SUPERTYPES.) *1

    Shape circle2 = new Circle(3);           // Correct. Reason: *1

    Rectangle rect1 = new Triangle(1,4,1);    // Rectangle rect1 = new Rectangle(...); / Triangle tri1 = new
    Triangle(...)
    Reason: *1

    Polygon rect2 = new Rectangle(8,5,8,5); // Correct. Reason : *1

    Rectangle rec3 = new Shape(6,6,6,6);     // Rectangle rect2 = new Rectangle(...); / Shape rect2 = new
    Rectangle(...); reason: *1

    Polygon tri1 = new Triangle(2,2,2);      // Correct. Reason : *1

    Triangle tri2 = new Triangle(4,4,6);     // Correct. Reason: *1

    Shape tri3 = new Triangle(2,2,2);        // Correct. Reason: *1


    circle1 = circle2;                      // circle2 = circle1; or circle1 = (Circle) circle2;

    rect2 = rect3;                          // Correct.

    tri1 = tri3;                            // tri3 = tri1; or tri1 = (Polygon/Triangle) tri3;

    cricle2 = tri3;                         // Incorrect.

    tri3 = tri2;                            // Correct.


    rect3 = new Shape(2,3,2);               // Incorrect. Rect3 = new Rectangle(...);

    System.out.println(rect3.toString());
}

```