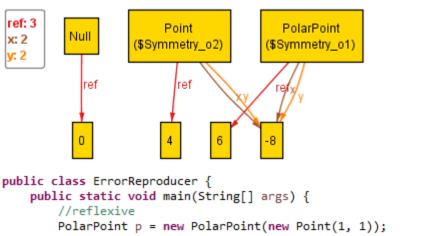


```
public class ErrorReproducer {
    public static void main(String[] args) throws Exception {
        Point p = new Point(1, 1);

        boolean expected = false;
        boolean actual = p.equals(null);

        System.out.printf("Expected %b Actual %b", expected, actual);
    }
}
```

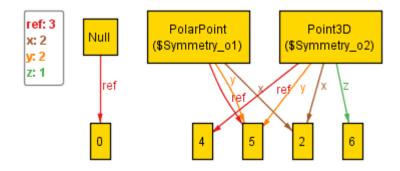


```
public static void main(String[] args) {
    //reflexive
    PolarPoint p = new PolarPoint(new Point(1, 1));

    boolean reflexive = p.equals(p);
    System.out.printf("Reflexive test: expected true, got %s\n", reflexive);

    //symmetric
    Point pnt = new Point(-8, -8);
    p = new PolarPoint(pnt);
    boolean pntp = pnt.equals(p);
    boolean ppnt = p.equals(pnt);

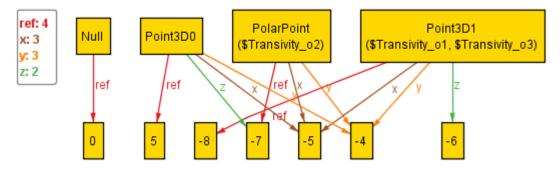
System.out.printf("symmetry\n\tpoint=polar: %s\n\tpolar=point: %s", pntp, ppnt);
}
```



```
public class ErrorReproducer {
    public static void main(String[] args) {
        //symmetry
        PolarPoint pp = new PolarPoint(new Point(2, 5));
        Point3D p3d = new Point3D(2, 5, 6);

        boolean forward = pp.equals(p3d);
        boolean back = p3d.equals(pp);

        System.out.printf("polar=3d:%s\n3d=polar:%s\n", forward, back);
    }
}
```



4. No Counter Examples found

