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| /\*\*  \* Created by Giuseppe Due on 4/22/2014.  \* Number 15.12 – Page 593  \*/  abstract class GeometricObject {  private String color = "white";  private boolean filled;  private java.util.Date dateCreated;  protected GeometricObject(){  dateCreated = new java.util.Date();  }  protected GeometricObject (String color, boolean filled){  dateCreated = new java.util.Date();  this.color = color;  this.filled = filled;  }  public String getColor(){  return color;  }  public void setColor(String color){  this.color = color;  }  public boolean isFilled(){  return filled;  }  public void setFilled(){  this.filled = filled;  }  public java.util.Date getDateCreated(){  return dateCreated;  }  public String toString(){  return "created on " + dateCreated + "\ncolor: " + color  + " and filled: " + filled;  }  public abstract double getArea();  public abstract double getPerimeter();  }  class Rectanlge extends GeometricObject{  public double width;  public double height;  public Rectanlge(double width, double height){  this.width = width;  this.height = height;  }  public double getArea(){  return width \* height;  }  public double getPerimeter(){  return (2 \* (width + height));  }  public boolean equals(Object obj){  System.out.println(this.getArea() + " " + ((Rectanlge)obj).getArea());  if(this.getArea() == ((Rectanlge)obj).getArea())  return true;  return false;  }  }  class ComparableRectangle extends Rectanlge implements Comparable{  public ComparableRectangle(double width, double height){  super(width, height);  }  public int compareTo(Object o){  if(getArea() > ((ComparableRectangle)o).getArea())  return -1;  else  return 0;  }  }  class TestEqualRect{  public static void main(String[] args){  Rectanlge cc = new Rectanlge(6, 7);  Rectanlge cc1 = new Rectanlge(6, 8);  boolean res = cc.equals (cc1);  System.out.println("Result: " + res);  }  } |

