Problem 3: Write a Java function *public static boolean isInside(double[]]] vertex, double x, double y)* that takes as its argument a **2-by-n** array of a convex polygon's vertex coordinates *double[][] vertex* – the x coordinates in the first row and y coordinates in the second row, and *double x* and *double y* coordinates of a point. It checks, if the point is inside the polygon.

Assume and use a method boolean to Left (double x1, double y1, double x2, double y2, double x0, double y0) that takes as its arguments coordinates of three points and returns true, if the third point (x0, y0) is in the left-hand side, when moving from the first point (x1, y1) to the second one (x2, y2); and false, if it

is in the right-hand side.

public static booken is Insid (double ISI)

vortex, double of, double y) {

for (out i = 0; i.e. vortex [0], length; i++) {

if (booken to bett (verlow [0][1], vorlen [0][1], i wher [0][1]; +(]

varlex [1][i+1]) {

return true;

else fretom false, }

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Use the backside, if needed

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