Pseudo-code of the Homework 1

Draw a convex polygon;

Get the smallest rectangle to cover the convex polygon;
(x, y) = The length and width of the smallest rectangle;

If getFloat(x / (1.5 * Rs)) > 2 / 3
    column = [x / (1.5 * Rs)] + 2;
Else
    column = [x / (1.5 * Rs)] + 1;

If getFloat(y / ($\sqrt{3}Rs$)) > 0.5
    row = [y / $\sqrt{3}Rs$] + 2;
Else
    row = [y / $\sqrt{3}Rs$] + 1;

For (m = 1 to column)
    For (n = 1 to row)
        If ((m%2) == 0) {
            The center coordinates of a circle = [(0.5 * Rs) + (m * 1.5 * Rs), (n * $\sqrt{3}Rs$)];
        } Else {
            The center coordinates of a circle = [(0.5 * Rs) + (m * 1.5 * Rs), (n * $\sqrt{3}Rs$) + $\dfrac{\sqrt{3}Rs}{2}$];
        }

        If (the center coordinates of a circle inside the convex polygon) or (the circle intersect the convex polygon)
            Draw the circle with the convex polygon;