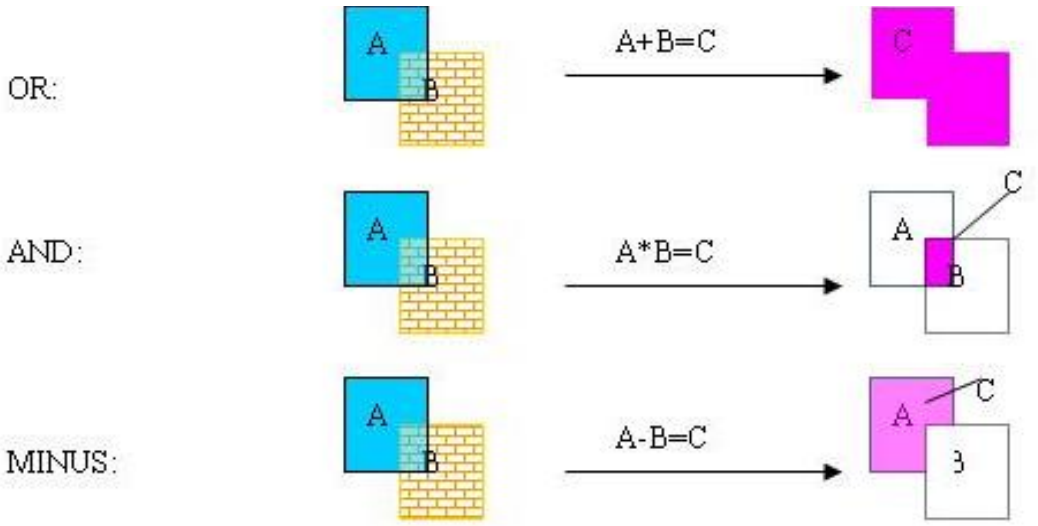
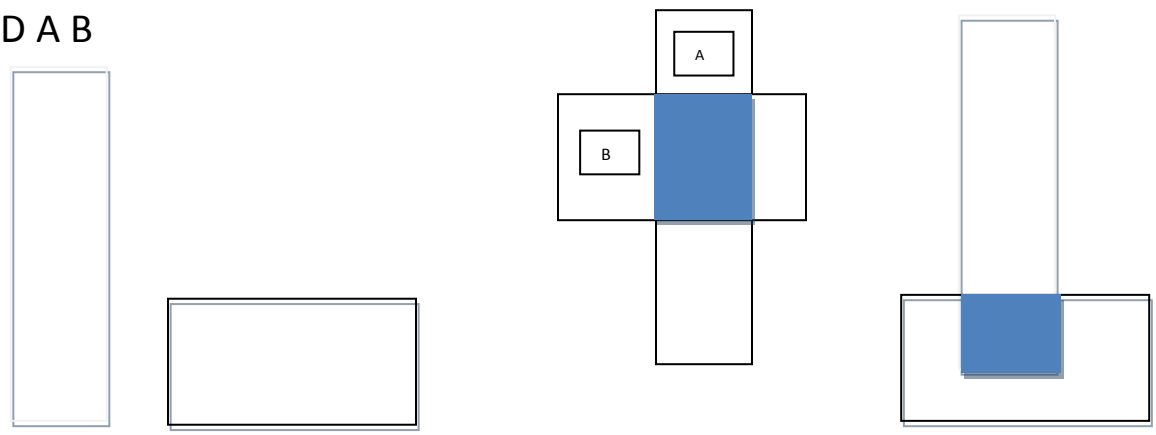
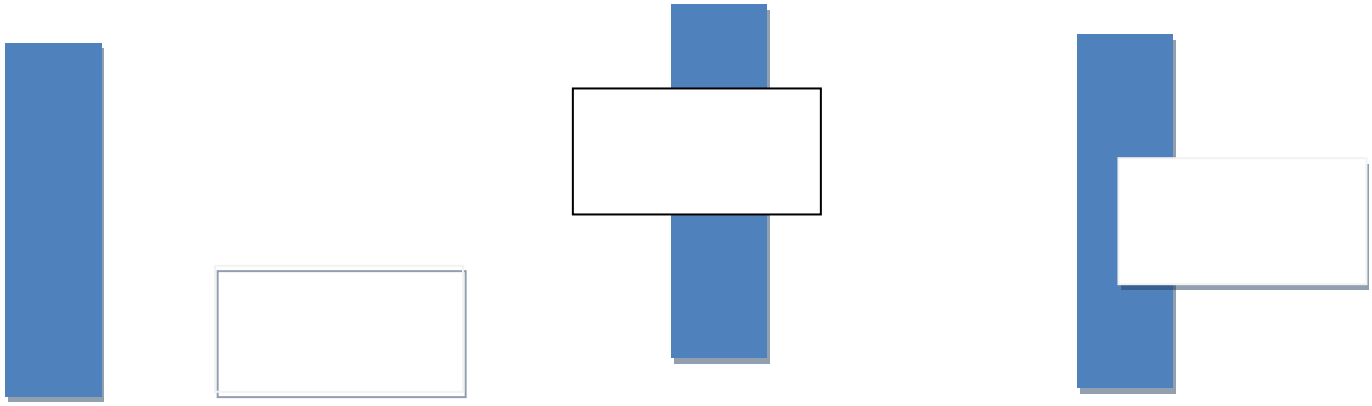
POLYGON operation



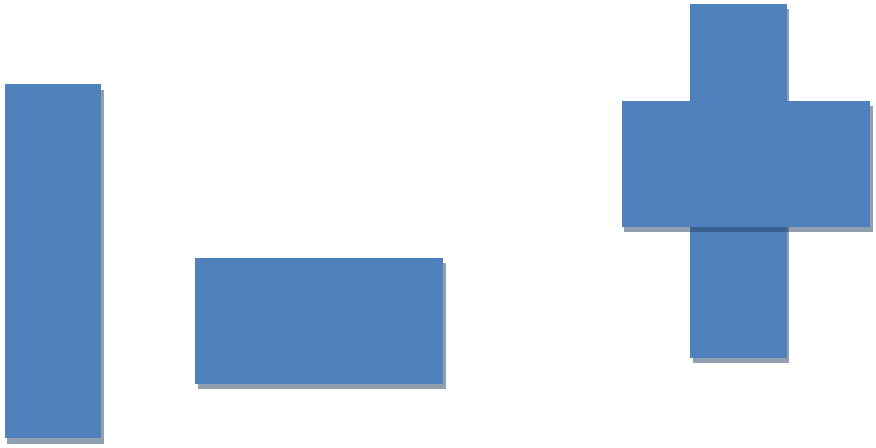
AND A B



NOT A B



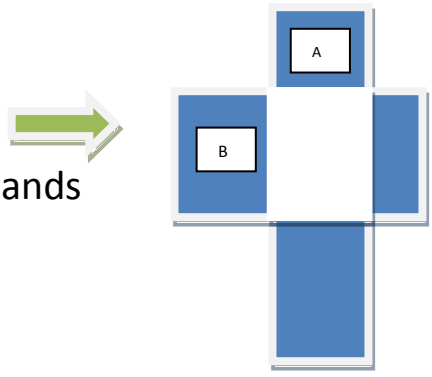
OR A B



1. Using the above 3 operation – please create the colored shape below:

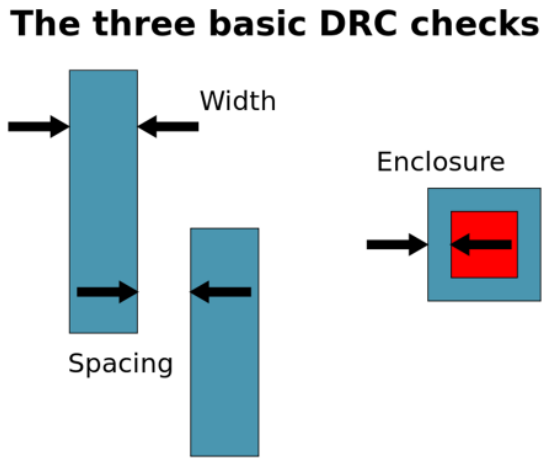
Please generate

with the above commands



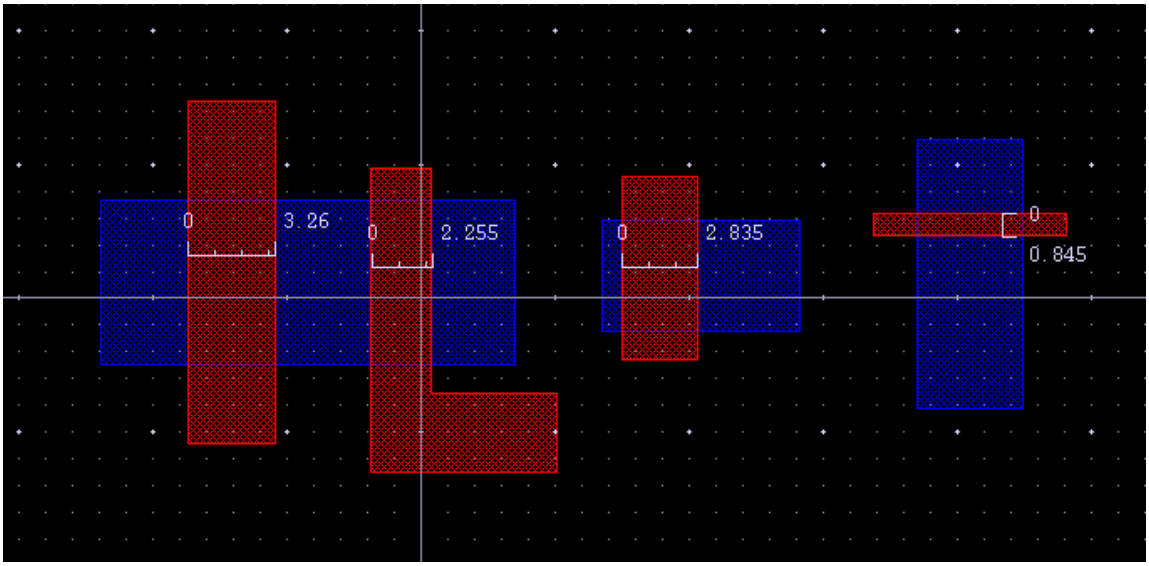
Definition: Derivative layer is an output from Boolean operation of two other layers (original or derivative).

2. Adding new command.



B = Width A < ## (A can be drawn or derivative).

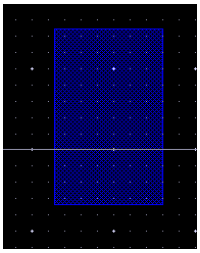
Gate is the common area between POLY (RED) and OD (BLUE). Based on the below picture, please write code that will extract ONLY GATEs of width < 2.5



Python question:

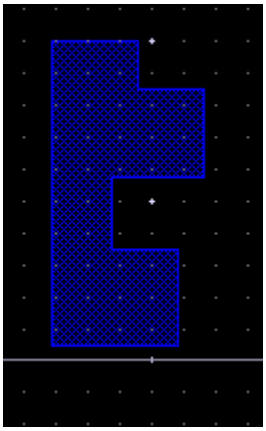
Define a class of a rectangle. What should be the minimum inputs – the required are Layer (color) and dimensions to draw.

Assume you have a function that draw the polygon – please define the function parameters.



Define a class of Polygon (a structure with non known points, between 2 adjacent points only one dimension is change – so all lines will be vertical or horizontal).

Assume you have a function that draw the rectangle – please define the function parameters.



Write small code that create the below:

Red polygon points:

(9.49 6.65) (9.49 4.975) (12.845 4.975) (12.845 -5.65) (10.11 -5.65) (10.11 -5.665) (6.065 -5.665) (6.065 -3.26) (2.385 -3.26) (2.385 1.075) (4.79 1.075) (4.79 6.65)

Yellow: