# Imagry – Home Assignment

Bonus: if R is not aligned to axis – it is rotated in some way in 2d.

Where is the rotation matrix. We need to find rotate and all the smaller rectangles – if we do so, we can apply the algorithm we constructed previously.

To find we only need to find . Having R's coordinates, we can compute from the dot product: where .

X1,Y1

X2,Y2