

(1955: Point =>(x,y) coordinate

Class: Boundary

=> a "list" of consecutive
boundary points in clothwise
evoler

Property: Edges

define 'edges' as tuples

et 2 consecutive points

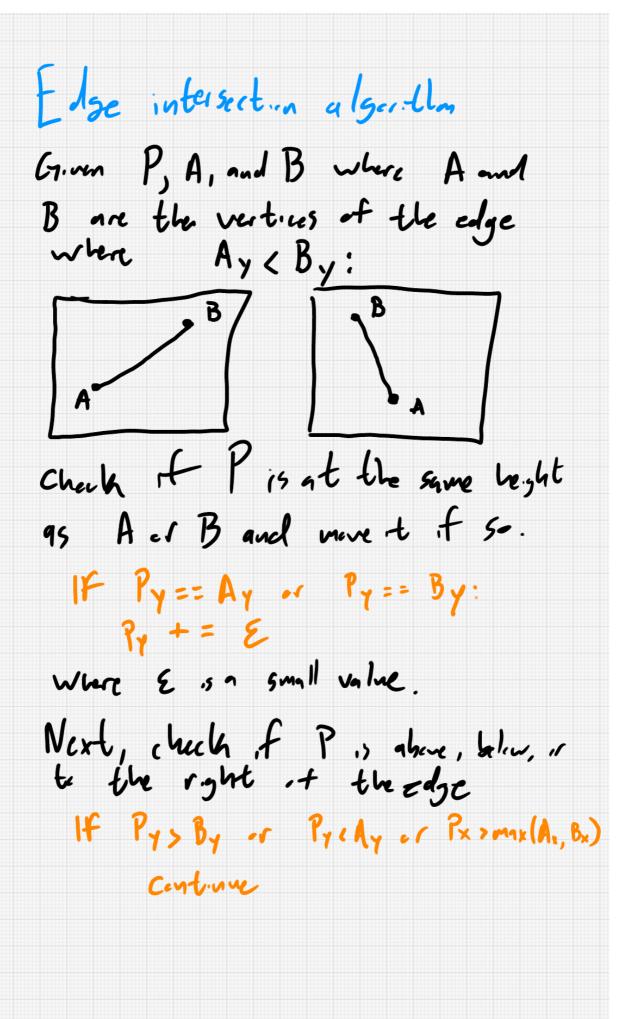
Method: Centrins

Algerithm that inputs a peint and entputs a below based in whether the point is within ar without the beaudary

Ray Trace Alger. thun

- 1. Input a boundary, SZs, and a Print Proper last page
- 2. Intralize beclum as false, indicatus
 the point is outside of IZs
- 3. Starting from P, down an infinte ray, R, posting to the rate.
- 4. Leap through all edges in Sis and test whether or not R intersects with them. Everytime it does, teggle the value of the boolean.
- 5 Return the ballon.

-- Test described in fellowing -pages



Check of P is to the left of both A and B (vivi that the other options have been accounted for)

If Px < min (Ax, Bx): Toggle Beelenn Continue

This only leaves the filling vertagle for possible positions of P:

Calculate slipe of AB and AP

H MAD > MAB, then Pis in the

green region and Rintersects Ils,

thus toggling the Lolan.

