planar Conver hull -> contd

Smallest cenver set containing a given set P of n points on plane (x_1, y_1) (x_2, y_2) . (x_n, y_n) CH(P)

Some properties of conver sets

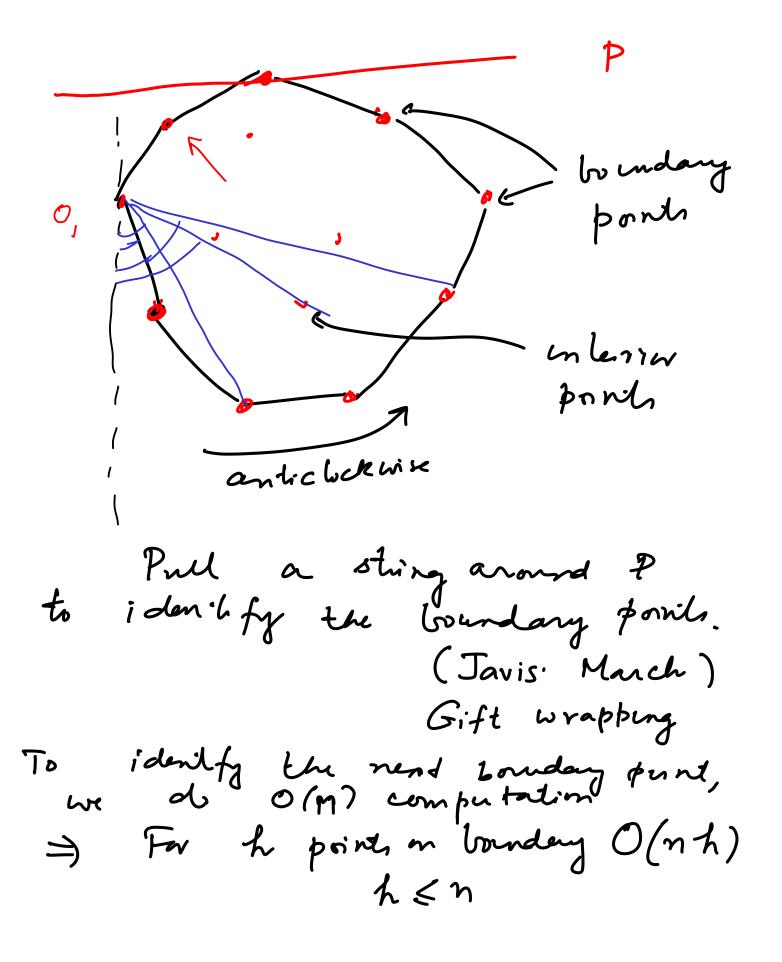
the entire line segment formly in CH(P) to points p, p, should be completely within CH(P)

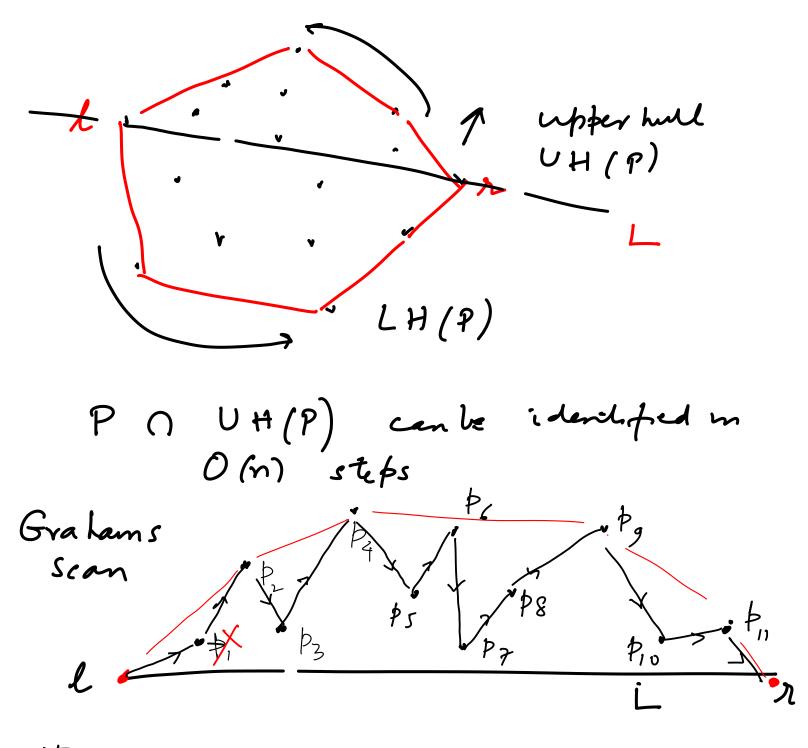
(1e if must be the clisure of

(1.e. it must be the clisure of such pards)

 $\beta, \alpha + (1-\alpha)\beta_2$ convertinear contract in of $0 < \alpha < 1$

Intersection of convex sets is convex





Invariant: Let P(i) be the boundary points among p, , P2, P3... Pi

P(i) ha convex cheun (always turning right) P(i) Each new point can lead & multiple Right turn/Left turn les is 2, y, | | < 0 (is right turn)
2, y, | | It we use a struck & store P(i) then the # of tests = # pops In the stack =) O(n) test over all +
time to sort => O(nbgn)