relge linking and line debeton

Bly linking

- Short with edge pinels and corresponding receipt pecking) - for each edge pinel will make awardows by asound that rivel

- for theh cited & Say, while

(x14) tocs, E) if IM(x14) - M(s,t) 1 & ti 14(K) -4(1)6) 1 6 tz

to brace out long edges

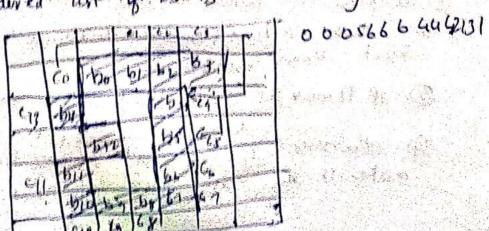
Boundary following we have edge founds around a closed andown, want to but lorder then in a close wife director

Moores boundary sollowing algorithm 1- edge pinel o- non edge i) at clarting bunt to be the appermost, lift most sount Let to be the left neighbour of 60

2) Examine the 8 neighbours of 60, starting at 10 and Joing dochwide bet b, be sirst I and how the fre coding o hat be bi , C2.61

3) Repeat precess of upaking band c 9) Continue until 6 = 60 and next boundary rout . Sound ly hi

5) the ordered list of his is the boundary.



Once noe have such toundary can describe it with chain code

to be able to match shapes at different orientations we

i) order the chair code so it always stark with the minimum mag-integer

2) Just encodo the difference the the directions 00510060067268

bu trace boundary

Polygonal httng to a set of ordered povek

cet ple a sequere of ordered distinct forms (og ordered edga after bon.

Ebelify two Starting govers A, B

of the curve is open, A, B are natural endfort

If the curve is closed its are the left and right most bount spraty a threshold T, (Pixeld whom Ce)

Great two Stacks

In process 14 dosed curve)

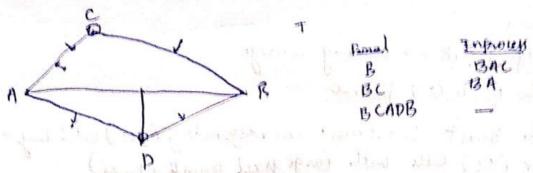
BA (A of ther curve)

1) cumputs were connecting the lest with us of fonal and in Grouss

@ compute the distances from this line to all founds blw these vertices ( counter dock week) Select Hmay with Dmax

3) if D max > T-gut V man at the end of " on Process" and go to sitep 1

a otherwise remove last verter from in process and make It the last verten of final.

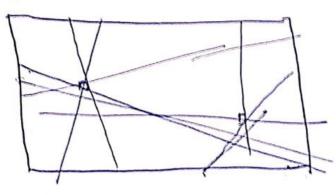


1 dn process is not empty go to step 1

6 Munuse - the vertices in final are the ordered vertices of John

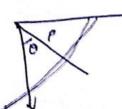
fitting straight line on image any to do with previousalgo - if one the with multiple ilened

the haigh hans for m



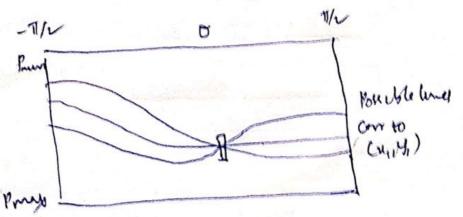
ench line Yamxab

zuc oxyemo = P



0 = 0 horyould 0 = T/2 vertical

a single edge fount (x14) could belong to many to solble lines in the (Pro) stares



Bossic idea

(a) Descrit edge pounk -> bunary wrage

(b) Look for (1,0) talle with (ange pred count (Board)

(c) Shut higherst fook!

(c) map the boar. (1,0) i unto lines un the (x,4) plane

(myst line tigmest

that correspond to