In convex, any line segment joining any 2 inside fronts, lies inside the volygon concave polygon will slurgy pave on interior angle great complex polygon is a jolygon whose sides occasioner each other one or more times. Cohyex ohearl

Inside - Outside test We assume that the vertex list for the polygon is already
stored & proceed as follows.

i) Draw any point outside the range X min & Xmon, Ymin &
Yman. Draw sean line through P upto point A. 11) If this scap-like a) Does not pass through any of the vortices then its contribution is equal to no, of times it intersects the edges of the prolygon. Say C if I C is old then A lies inside polygon

I) C is even then it lies outside b) If it passes through any of the vertices, then its contribution of this intersection, say V.

I) Taken as 2 or even If other points of the 2 edges lie on I side of the scan line. II) Taken as I if the other end points of the 2 edges lie on the offosite sides of scan line. III) Here will be total contribution (C+V) (Xmax, Xmax) (Smin, Ymin) For filling polygon with particular colour, you need to determine the pixels falling on the border of polygon to those which fall inside the polygon.

A scan-fill, region is performed by first determining the intersection position of the boundaries of the fell region with the screen scan lines. The scan line fell algorithm identifies the same inferior region as the odd-even rule Sean- Fill Algorithm It's oh image space algorithm. It processes one-line at a time that one finel at time. It uses concept of whorence & records edge list, active edge lest. The edge list contains the co-ordinate of 2 end-points Active edge table or lest (AEL) contains edge a given scan line intersects during its sweep. The AEL should be sorted in inversing order of x. The AEL is synamic, growing & shrinking. I Stort slyo.

It Initialize the Secired data structure

a) truste polygon table containing color, edge pointers

b) Establish sedge table of endpoint , pointered to polygon,
inverse slope c) Create active edge list, which is sorted in increasing d) breate flag F. which will be on or off.