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90	0	18	25	339	155	33	24	0		
8	20	34	128	24	172	26	23	0		
	10	100	19	32	31	28	10/26	01	00000	
1	0	0	0	0	0	.0	0	O		
	9	calculate		median		BC1 (hE' cz ' B1 (0'0'0'0)				6)

conditions for region splitting and meaging

- for which Q(Ri) = FALSE
 - any adjacent regions Ri and RK for which
 - 3) stop when no further merging is possible
- 3) No, if all the pixels in an image are shuffled, there will be no change in the histogram. Bince we take how many times a same pixel value appears the values remains same.

Abrupt local changes in intensities age detects ph gearinages of the se co si 1) First order desirate [produce thickes edge] 2p = f(x+1)-f(x) second order deal votive [stronger response to 3-4 = +(x+1)++(x-1)-2+(x) +ine day 3 965 DE OLI ME 801 NE 0.

For 2D Edge detections deaivotives age

(80) DE 60 81 (0) 0,000) noibon stouctos

$$\frac{\partial f}{\partial t} = f(x,y) = \frac{\partial f}{\partial x} + \frac{\partial f}{\partial y} = 0$$

$$\frac{\partial f}{\partial x} = f(x,y) = f(x,y) = 0$$

$$\frac{\partial f}{\partial x} = f(x,y) = f(x,y) = 0$$

- conditions for region splitting and meaging 5) les chain code compresses the discription information of an object continue by representing the each code corresponds to the direction of successive contribute points. contour as sequence of directional codes, where ฮบят ⇒ (มяบเล)ิ
- i) Medical imaging 2) Facial Recoginisation
- 3) Finger point Recognisation of our ou and object odetection of appears on sei Illu sont take how many times a same pixel value appears The values remains some

- 2) Canny Edge Detection:

 - Three objectives i) Low Error rate
 - 4) Edge points should be well localized
 - 3) single edge point responce

Basic Steps

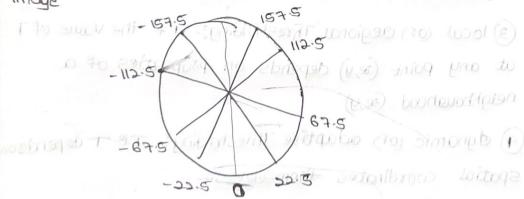
i) smooth the input image with guassian filter. and strenge of may ente

f=(x,y) = d(x,y)* f(x,y) 2) compute the gradient amagnitude and angle images

gradient angle

point

3) Apply nonmaxima suppression to the gradient magnitude mage



-> Let di, dz, dz, dy denote 4 directions: horizontal, -95%, weathout 1450. It beworphied of pripriced

-> Pind the direction of that is closed to x(ey)

4) use double thresholding and connectivity analysis to detect and link Edges 11 0 = 14 x 0

