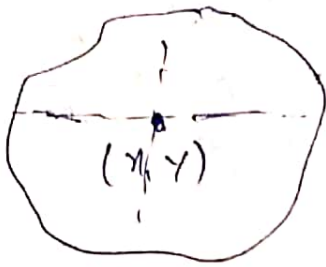


Boundary fill Algo - Interactive painting -

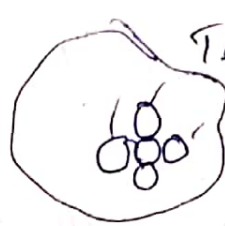
- 2 methods -
- ① 4 Connected
 - ② 8 Connected

(18)



①

②



Tested & filled until boundary reached

Step 5 Boundary fill
 $(x, y, fill, boundary)$
 Initialize Boundary of the region & variable fill with color
 ⑤ - Get the interior pixel (x, y)
 Now take an integer called current & assign it to (x, y)

⑥ If $(current \neq boundary)$ and $(current \neq fill)$ then
 set pixel $(x, y, fill)$

boundary fill 4 $(x+1, y, fill, boundary)$

$(x-1, y, fill, boundary)$

$(x, y+1, \text{---})$

$(x, y-1, \text{---})$

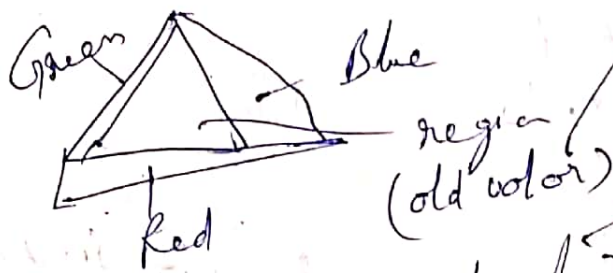
(Stack used)

End

Flood fill -

Area filling

Search for boundary



fill color f

procedure flood fill
 $f(x, y, \text{oldcolor}, \text{fillcolor}, \text{integer})$

point

4 connected

var (current; Integer)
current = getpixel(x, y)
if (current = oldcolor)
then
begin

Boundary diff.

(19)

setpixel(x, y, fillcolor)
floodfill(x, y+1, fillcolor, oldcolor)
_____(x, y-1, _____)
_____(x+1, y, _____)
_____(x-1, y, _____)

End -