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## (1) DDA Line Drawing Algorithm

Step1 Start Algorithm

Step 2 Declare N1, y1, N2, y2, dn, dy, n, y as integer variables.

Step 3 Enter value of N1, Y1, U2, Y2

Step + Calculate dn = n2 - n1

Step 5 Calculate dy = y2 - y1

Step 6 If Abs (dn) > Abs (dy)

then step = abs (du)

else

Step 7 nine = dn 1 step

yinc = dylstep

assign n = N1

assign y = y1

Step 8 set pinel (n/y)

Step 9 n = n + ninc

y = y + yinc

set pinels (Round (n), Round (y))

Step10 Repeat step 9 until n=112

Step 11 End Algorithm

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      DDA Line Derawing Brogram
(1)
    Hindude (graphics. h)
    #include ¿conio. h>
    #include < stdio . h >
    void main ()
       intgd = DETECT, gm, i;
       float n, y, dn, dy, steps;
        int 40, 41, 40, 41;
        mitgraph ( &gd, kgm, "CINTCN BGI");
        set bk colon (WHITE);
        MO=100, y0=200, M1=500, y1=300;
        dn = (float) (n1-n0); dy = (float) (y1-y0);
        if (an >= dy)
        f steps=dn;
         { steps = dy ;
         dn = dn 1 steps; dy = dy/steps; n = no; y = yo; lo=1;
         while (1°C = Steps)
          putpixed (M, Y, RED);
           nt = dn ' yt = dy ;
           i= i+1;
          getch ()
          closegraph ();
```