Step1: Calculate positions of both endboints of the line. Step 2: Perchorem OR Operation on both of this end points Step3: 91 the or operation gives 0000 Then lim is considered to be visible perform AND operation on boths endpoints 1) And #0000 than the line is invisible elsi Line is considered the clipped cast. Step4: 91 lin is clipped cast, find an intersection with boundaries of the window = (32-31)(212-31)(a) - if . bit 1 is "1" line intersects with luft boundry of sudangle window y3= >1+m (x-x1) When X= Xwomin

when xwmin is the minimum value of X Co-ordinate of window (b)- if bit-2 is "1" & line interested with suight boundry york (x-xi) whad x - to x wmax when where x more is maximum value of co-ordinate of the window (C) - if bit 3 is "1" line intersects with postsom pounded 110 X3 -X1+(4-41)/m 0000 wheely - ywmin worker is the minimum value of y Co-ordinate of the window

With the with the with the with 4 is "1" line interested with the top boondary (40th X3 = X1+10+10/m when y = y wmax I sumax is the to maximum value of y window.

# include Sigstruam.h) # include < conio.h> # include graphics.h> # include < 208.4> class gaga int gd, gmode, x, y, xmin, ymin, ymax, xmax; int anaz iebrex, resignity tool int xs, ys, xe, ye, flood maxx, maxx; Poblic: May of the size of the bior MITHER SCHOOL SELVEN void find (); void display (Floor, Floor, Floor); void chadrond (int) word Show bit Lint) data: ; get datal)

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cootex "Enter the minimum and maximum Coordinate of window (x.y)" Cin >> x min >> y min >> x max >> y max; Cootex "Enter the end points of the wink to be clipped" Cin >>xexxx 2/4 exxxe; display (xs, xe, xe de); voil. 8 data: 18 play (floot x8, floot, ys, floot, xe float de) El. 1116 / 16, 181. int 8d = DETECT init graph (& gd, &gmode,"); maxx - getmaxx U; maxy = getmax & (1: line (max/2, o, maxx/2, maxx) lin (0, max) /2, maxx, maxx/2). suctorigh (max X/2 + xmin, maxy /2- ymax, maxxx + xmax, maxd/2-4min);

lini (maxx/2+xs, maxy/2-ys, maxx/2+xe, maxy/2-ys Stych (); (cu) kidiyat 11 (135-max) >0) (0< (xpmax) +11) 14 ((3min - 43)>0 if ((XS-Xmax)>0) William Gara (0 < (xpmb-981) hi les (est-nimes) fi Wills it offer a2+ 74; if (cxe-xmax) >0) ant = 21 if ((xmin-xe)>0) at altitude dott If at will the

counter "the area code of 1st point is"; Showbit (at); gutch(); coute with alla code of 2nd point is: show bit (a2); gutch () (0. (xp. m. 1) ) / (nteri) tildwood 2: abob biov (0-(0) (1))/ insti, Kand; for(i=3;1>0=0;i--) and - DICCI K = = 01000+ <<"0": cout <<"1"; void dota: clipU ints = a12.02 out << " Line 18 beautit cambidate

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if (a 1==0) Chickonol (a1): X2=X1: 22=31; VI. 1 91117 W (02=0) 2 x3=xe; 33=36 1.4.361 16 chick and (and) X3=X1: X3=X1: X8-X2; 88-82; Xe=X3; Je=35; cout << end! Jisplay (xx, xe, xe, ye); coot ex "Linte after clipping"! 20tchO. void docta: chichonof lintil

1- 18.1. 1=0:91=0; it (1==1) "IN DECTIFIE 11 - 24 - 17 - 100 X1=Xmin; 91-25+(CX1-8XS)/(Xe-XS)\*(de-48); Hall got and 了一一说 (oxai) # (-1) Michy 12 max 600 - 16 x1=x8+(y1-2)/(de-y8)\* (xe-xs); K=i&A; # (K==1) SAHAD WAR. 岁1 = ymin X1=XS+ (191-75)/(3e-78))\* (xe-xs); m=182 it (m=1)

31-34 (UX1-XS)/(Xe-XS))\*(de-28), main () 9 osta 3; Chron. 11 S. gut douta (); S. finl) closigeaph () () mekukure