ellipse

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Thursday, May 02, 2024 9:34 PM
#include<iostream>
#include<graphics.h>
#include<conio.h>
#include<math.h>
using namespace std;
void plotpoints(int x, int y,int *p){
  putpixel(x+p[0],getmaxy()-(y+p[1]),255);
  putpixel(x+p[0],getmaxy()-(-y+p[1]),255);
  putpixel(-x+p[0],getmaxy()-(-y+p[1]),255);
  putpixel(-x+p[0],getmaxy()-(y+p[1]),255);
void Ellipse(int a,int b, int *p){
  int x=0,y=b;
  int sa=a*a;
  int sb=b*b;
  double d1=sb-sa*b+0.25*sa;
  plotpoints(x,y,p);
  while( sa^*(y-0.5) > sb^*(x+1)){ // Region 1
     if(d1<0) { //choose E E=b^2 (2x + 3)
       d1+=sb^*((2^*x)+3);
     else{ //choose SE SE= b^2 (2x + 3) + a^2 (-2y + 2)
       d1+=sb^*((2^*x)+3) + sa^*(-(2^*y)+2);
       y--;
    }
     X++;
    plotpoints(x,y,p);
  double d2 = sb^*(x+0.5)^*(x+0.5) + sa^*(y-1)^*(y-1) - sa^*sb;
  while (y>0){ // Region 2
     if(d2<0){ // choose SE SE= b^2 (2x + 2) + a^2 (-2y + 3)
       d2+= sb^*((2^*x)+2) + sa^*(-(2^*y)+3);
       X++;
    }
     else { // choose S S = a^2 (-2y + 3)
       d2+= sa^*(-(2^*y)+3);
    }
    y--;
     plotpoints(x,y,p);
  }
int main(){
  int gd = DETECT, gm;
  char pathtodriver[] = "";
  initgraph(&gd, &gm, pathtodriver);
  int *p=new int(2);
  int a =50;
  int b =60;
  p[0]=200;
  p[1]=300;
  Ellipse(a,b,p);
  getch();
  closegraph();
  return 0;
```

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