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unit Unit1;
 interface
 uses
   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
   Dialogs, ExtCtrls, Grids, StdCtrls, Math;
 type
   TfrmMain = class(TForm)
     sgT: TStringGrid; imgG: TImage; btnRepresenter: TButton; btnTableauImages: TButton;
     edtImMin: TEdit; Label2: TLabel; edtReMax: TEdit; Label3: TLabel; edtReMin: TEdit;
    Label4: TLabel; edtImMax: TEdit; Label5: TLabel; edtDRe: TEdit; edtDIm: TEdit;
    Label6: TLabel; Label7: TLabel; Label8: TLabel; Label9: TLabel; Label10: TLabel;
    Labell1: TLabel; edtXMin: TEdit; edtYMin: TEdit; edtXMax: TEdit; edtYMax: TEdit;
    Label12: TLabel; Label1: TLabel; Label13: TLabel;
    procedure btnTableauImagesClick(Sender: TObject);
    procedure btnRepresenterClick(Sender: TObject);
    procedure FormCreate(Sender: TObject);
  private
     { Private declarations }
  public
     { Public declarations }
   end;
var
  frmMain: TfrmMain;
implementation
{$R *.dfm}
type TComplex = record
                  re, im: extended
                end;
     TPixel = record
                x, y: integer;
               end;
var xMin,yMin,xMax,yMax:extended;
function inverse(z:TComplex):TComplex;
var sqrModule:extended;
begin
  sqrModule:=sqr(z.re)+sqr(z.im);
  if sqrModule=0 then begin result.re:=1E6; result.im:=1E6 end
  else begin result.re:=z.re/sqrModule; result.im:=-z.im/sqrModule end
end;
function stringToComplex(s:string):TComplex;
var p:integer;
  p:=pos(' + ',s);
  result.re:=strtofloat(copy(s,1,p-1));
  result.im:=strtofloat(copy(s,p+3,length(s)-p-3));
end:
function complexToPixel(z:TComplex;imgG:TImage):TPixel;
  result.x:=round((z.re-xMin)/(xMax-xMin)*(imgG.Width-1));
  result.y:=round((yMax-z.im)/(yMax-yMin)*(imgG.Height-1));
end;
```

```
procedure TfrmMain.btnTableauImagesClick(Sender: TObject);
 var reMin, reMax, dRe, imMin, imMax, dIm: extended;
      i, j, imax, jmax: integer;
     z:TComplex;
 begin
   reMin:=strtofloat(edtReMin.text);
   reMax:=strtofloat(edtReMax.text);
   imMin:=strtofloat(edtImMin.text);
   imMax:=strtofloat(edtImMax.text);
   dRe:=strtofloat(edtDRe.text);
   dIm:=strtofloat(edtDIm.text);
   imax:=floor((reMax-reMin)/dRe);
   jmax:=floor((imMax-imMin)/dIm);
   sgT.ColCount:=imax+2;
   sgT.RowCount:=jmax+2;
   for i:=0 to imax do sgT.Cells[i+1,0]:=floattostr(reMin+i*dRe);
   for j:=0 to jmax do sgT.Cells[0,j+1]:=floattostr(imMin+j*dIm);
   for i:=0 to imax do
     for j:=0 to jmax do
       begin
         z.re:=reMin+i*dRe;
         z.im:=imMin+j*dIm;
        end
 end;
 procedure TfrmMain.btnRepresenterClick(Sender: TObject);
 var i,j:integer;
     z:TComplex;
    p:TPixel;
begin
   imgG.Canvas.Rectangle(-1,-1,imgG.Width+1,imgG.Height+1);
  xMin:=strtofloat(edtXMin.Text);
  xMax:=strtofloat(edtXMax.Text);
  yMin:=strtofloat(edtYMin.Text);
  yMax:=strtofloat(edtYMax.Text);
  for i:=1 to sgT.ColCount-1 do
    begin
      z:=stringToComplex(sgT.Cells[i,1]);
      p:=complexToPixel(z,imgG);
      imgG.Canvas.MoveTo(p.x,p.y);
      for j:=2 to sgT.RowCount-1 do
        begin
          z:=stringToComplex(sgT.Cells[i,j]);
          p:=complexToPixel(z,imgG);
          imgG.Canvas.LineTo(p.x,p.y);
        end;
    end;
  for j:=1 to sgT.RowCount-1 do
    begin
      z:=stringToComplex(sgT.Cells[1,j]);
      p:=complexToPixel(z,imgG);
      imgG.Canvas.MoveTo(p.x,p.y);
      for i:=2 to sgT.ColCount-1 do
       begin
          z:=stringToComplex(sgT.Cells[i,j]);
         p:=complexToPixel(z,imgG);
          imgG.Canvas.LineTo(p.x,p.y);
       end:
     end:
end:
procedure TfrmMain.FormCreate(Sender: TObject);
begin
  imgG.Canvas.Pixels[0,0]:=clWhite;
end:
end.
```