Базовые растровые алгоритмы

Код программы:

```
procedure TForm1.HNailsL(x,y:integer);
var i: integer;
begin
 with PaintBox1.Canvas do begin
  for i:=0 to 2 do
  begin
   MoveTo(x+10*i,y);
   LineTo(x+10*i,y+10);
   LineTo(x+5+10*i,y+15);
  end;
 end:
end;
procedure TForm1.HNailsR(x,y:integer);
var i: integer;
begin
 with PaintBox1.Canvas do begin
  for i:=0 to 2 do
  begin
   MoveTo(x+10*i,y);
   LineTo(x+10*i,y+10);
   LineTo(x-5+10*i,y+15);
  end:
 end;
end;
procedure TForm1.LNailsL(x,y: integer);
var i: integer;
begin
 with PaintBox1.Canvas do begin
  for i:=0 to 2 do
  begin
   MoveTo(x+8*i,y+5*i);
   LineTo(x-10+8*i,y+2+5*i);
   LineTo(x-20+8*i,y+10+5*i);
  end;
 end;
```

```
end;
procedure TForm1.LNailsR(x,y: integer);
var i: integer;
begin
 with PaintBox1.Canvas do begin
  for i:=0 to 2 do
  begin
   MoveTo(x-8*i,y+5*i);
   LineTo(x+10-8*i,y+2+5*i);
   LineTo(x+20-8*i,y+10+5*i);
  end;
 end;
end:
procedure TForm1.Eyes(xx1,xx2,y: integer; c: TColor);
begin
 with PaintBox1.Canvas do begin
  Pen.Style:=psClear;
  Pen.Color:=c;
  Brush.Color:=c;
  Ellipse(xx1,y,xx1+10,y+15);
  Ellipse(xx2,y,xx2+10,y+15);
 end;
end;
procedure TForm1.Button1Click(Sender: TObject);
begin
 BodyColor:=RGBToColor(188,98,18);
 OtherThColor:=RGBToColor(112,55,6);
 LineColor:=RGBToColor(60,30,5);
 with PaintBox1.Canvas do begin
 Pen.Color:=BodyColor;
 Brush.Color:=BodyColor;
 Ellipse(100,20,300,200);
 Ellipse(60,120,340,360);
 Pen.Color:=OtherThColor;
 Brush.Color:=OtherThColor;
 Ellipse(125,25,145,45);
 Ellipse(150,40,170,60);
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```
Ellipse(105,45,125,65);
Ellipse(120,70,140,90);
Polygon([Point(142,28),Point(167,43),Point(153,57),Point(128,42)]);
Polygon([Point(128,28),Point(142,42),Point(122,62),Point(108,47)]);
Polygon([Point(108,62),Point(122,47),Point(137,73),Point(123,87)]);
Ellipse(230,40,250,60);
Ellipse(260,70,280,90);
Ellipse(255,25,275,45);
Ellipse(275,45,295,65);
Polygon([Point(247,57),Point(233,43),Point(258,28),Point(272,42)]);
Polygon([Point(258,42),Point(272,28),Point(292,48),Point(278,62)]);
Polygon([Point(278,48),Point(292,62),Point(277,87),Point(263,73)]);
Ellipse(50,180,130,300);
Ellipse(270,180,350,300);
Ellipse(100,340,205,380);
Ellipse(195,340,300,380);
Ellipse(140,65,260,135);
Pen.Color:=clBlack;
Brush.Color:=clBlack;
Ellipse(170,110,230,150);
Brush.Color:=clWhite;
Ellipse(160,90,180,120);
Ellipse(220,90,240,120);
Pen.Color:=clWhite;
Ellipse(180,120,200,130);
Pen.Color:=LineColor;
Brush.Color:=LineColor;
Ellipse(160,60,180,65);
Ellipse(220,60,240,65);
Pen.Width:=(PaintBox1.Canvas.Pen.Width)*2;
x1 := 80;
y1:=290;
HNailsL(x1,y1);
x1 = 300;
HNailsR(x1,y1);
```

```
x1:=120;
 y1:=360;
 LNailsL(x1,y1);
 x1 = 280;
 LNailsR(x1,y1);
 Arc(60,150,180,270,170,170,120,150);
 Arc(170,110,230,170,180,160,220,160);
 x1:=170;
 x2:=230;
 y1:=102;
 Eyes(x1,x2,y1,clBlack);
 end;
 Timer1.Interval:=300;
 Timer1.Enabled:=True;
end;
procedure TForm1.Timer1Timer(Sender: TObject);
begin
 Eyes(x1,x2,y1,clWhite);
 x1:=x1-1;
 x2:=x2-1;
 Eyes(x1,x2,y1,clBlack);
 if x1=162 then
 begin
  Eyes(x1,x2,y1,c1White);
  x1:=170;
  x2 := 230;
  Eyes(x1,x2,y1,clBlack);
 end;
end;
```

Пользовательский интерфейс:

