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Unitl.pas
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  1: unit Unit1;
 2:
 3: interface
  4:
  5: uses
       Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  6:
  7:
       Dialogs, StdCtrls, Grids;
  8:
  9: type
       TForm1 = class(TForm)
 10:
 11:
         StringGrid1: TStringGrid;
 12:
         ListBox1: TListBox;
 13:
         Button1: TButton;
 14:
         Button2: TButton;
 15:
         Edit1: TEdit;
 16:
         Button3: TButton;
 17:
         Labell: TLabel;
 18:
         Button4: TButton;
 19:
         procedure Button1Click(Sender: TObject);
 20:
         procedure Button2Click(Sender: TObject);
 21:
         procedure Button4Click(Sender: TObject);
 22:
         procedure Button3Click(Sender: TObject);
 23:
       private
 24:
         { Private declarations }
 25:
       public
 26:
         { Public declarations }
 27:
       end;
 28:
 29: var
 30:
       Form1: TForm1;
 31:
 32: implementation
 33:
 34: {$R *.dfm}
 35: function element (var liste:TListBox; n : integer):boolean;
 36: var i:Integer;
 37: begin
 38: result:=false;
 39: i:=0;
 40: while (iste.Items.count) and (liste.Items[i]<>inttostr(n)) do
 41: i:=i+1;
 42: result:=(i<liste.Items.count);</pre>
 43: end;
 44: procedure TForml.ButtonlClick(Sender: TObject);
 45: var i,j :integer;
 46: begin
 47: listbox1.Items.clear;
 48: for i:=0 to stringgrid1.rowcount-1 do
 49:
        for j:=0 to stringgrid1.colcount-1 do
 50:
              stringgrid1.Cells[j,i]:='';
 51:
 52: for i:=0 to stringgrid1.rowcount-1 do
 53:
         begin
 54:
         stringgrid1.Cells[0,i]:='1';
 55:
         stringgrid1.Cells[i+1,i]:='1';
 56:
         for j:=1 to i do
 57:
      stringgrid1.Cells[j,i]:=IntTostr(strtoint(stringgrid1.Cells[j-1,i-1])+strtoint(stringgrid1.
     Cells[j,i-1]));
 58:
         end;
 59:
 60: end;
 61:
 62: procedure TForm1.Button2Click(Sender: TObject);
 63: var n,i,j:integer;
 64: begin
 65: n:=StrToInt(edit1.Text);
 66: for i:=0 to stringgrid1.rowcount-1 do
         for j:=0 to i+1 do
 67:
 68:
            if Strtoint(stringgrid1.Cells[j,i]) mod n = 0 then
                                                                stringgrid1.Cells[j,i]:='';
 69: end;
 70:
 71: procedure TForm1.Button4Click(Sender: TObject);
 72: var somme, i,j:integer;
 73: begin
```

74: listbox1.items.clear;

75: for i:=0 to stringgrid1.rowcount-1 do

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 76:
             begin
 77:
             somme:=0;
 78:
             for j:=0 to i+1 do
 79:
            if stringgrid1.Cells[j,i]<>'' then somme:=somme+Strtoint(stringgrid1.Cells[j,i]);
            listbox1.items.add(inttostr(somme));
 80:
 81:
             end;
 82:
 83: end;
 84:
 85: procedure TForm1.Button3Click(Sender: TObject);
 86: var nombre,i,impair,carre:integer;
 87: begin
 88: nombre:=0;
 89: carre:=0;
 90: impair:=1;
 91: for i:=0 to 5792 do
 92:
       begin
 93:
        if element(listbox1,carre) then nombre :=nombre+1;
        carre:=carre+impair;
 94:
 95:
        impair:=impair+2;
 96:
        end;
 97: {ou
 98: for i:=0 to 5792 do
 99:
         if element(listbox1,sqr(i)) then nombre:=nombre+1;
100:
         label1.Caption:=inttostr(nombre);
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101: end; 102: 103: end.