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unit Unit1;
interface
uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, Grids, StdCtrls;
type
  TForm1 = class(TForm)
   Label1: TLabel;
   edtNbreEq: TEdit;
   btnMatchs: TButton;
    lblMatchs: TLabel;
    sgMatchs: TStringGrid;
   btnStart: TButton;
   btnWinner: TButton;
    lblWinner: TLabel;
   btnFinal: TButton;
   sgTfinal: TStringGrid;
   procedure btnMatchsClick(Sender: TObject);
   procedure btnStartClick(Sender: TObject);
   procedure btnFinalClick(Sender: TObject);
   procedure btnWinnerClick(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;
  Form1: TForm1;
implementation
{$R *.dfm}
procedure IniMatchs(table: TStringgrid; n: integer);
var i, j: integer;
begin
  table.ColCount:=n+1;
  table.RowCount:=n+1;
  table.Cells[0,0]:='matchs';
  for i:=1 to n do
   begin
      table.ColWidths[i]:=40;
      table.Cells[i,0]:=inttostr(i);
      table.Cells[0,i]:=inttostr(i) + ' contre';
    end;
  for i:=1 to n do
   for j:= 1 to n do
     table.Cells[i, j]:='';
  for i:=1 to n do
   for j:= i to n do
      table.Cells[i, j]:='///';
end;
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procedure IniTfinal( table: Tstringgrid; n: integer);
var i,j: integer;
begin
 table.ColWidths[2]:=115;
  table.RowCount:=n+1;
  for i:=1 to 2 do
   for j:=1 to n do
      table.Cells[i,j]:='0';
  table.Cells[0,0]:='quipes';
  table.Cells[1,0]:='points';
  table.Cells[2,0]:='buts marqu s';
  for i:=1 to n do table.Cells[0,i]:=inttostr(i);
end;
procedure analyze(tableA, tableB: Tstringgrid; n: integer);
var i, j: integer;
begin
  for j:=1 to n do
   for i:=1 to n do
      if (TableA.Cells[i,j][1]='5') then
        TableB.Cells[1,j]:=inttostr(strtoint(TableB.Cells[1,j])+3)
      else if (TableA.Cells[i,j][3]='5') then
        TableB.Cells[1,i]:=inttostr(strtoint(TableB.Cells[1,i])+3);
  for j:=1 to n do
   for i:=j+1 to n do
   begin
      TableB.Cells[2,j]:=inttostr(strtoint(TableB.Cells[2,j])+
                                strtoint(tableA.Cells[i,j][1]));
     TableB.Cells[2,i]:=inttostr(strtoint(TableB.Cells[2,i])+
                                strtoint(tableA.Cells[i,j][3]));
    end;
end;
procedure TForm1.btnMatchsClick(Sender: TObject);
var n: integer;
begin
 n:=strtoint(edtNbreEq.Text);
  lblMatchs.Caption:=inttostr(n*(n-1) div 2);
procedure TForm1.btnMatchsClick(Sender: TObject);
var n: integer;
begin
  n:=strtoint(edtNbreEq.Text);
  lblMatchs.Caption:=inttostr(n*(n-1) div 2);
end;
procedure TForm1.btnStartClick(Sender: TObject);
var n: integer;
begin
 n:=strtoint(edtNbreEq.Text);
  IniMatchs(sgMatchs, n);
  IniTfinal(sgTfinal,n);
end;
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procedure TForm1.btnFinalClick(Sender: TObject);
var n: integer;
begin
 n:=strtoint(edtNbreEq.Text);
  analyze(sgMatchs, sgTfinal, n);
end;
procedure TForm1.btnWinnerClick(Sender: TObject);
var winner, i, n, max: integer;
begin
  n:=strtoint(edtNbreEq.Text);
  max:=0;
  for i:=1 to n do
   if (strtoint(sgTfinal.Cells[1, i])>max) then
     begin
       max:=strtoint(sgTfinal.Cells[1, i]);
        winner:=i;
      end;
  for i:=1 to n do
   if (strtoint(sgTfinal.Cells[1, i]) = strtoint(sgTfinal.Cells[1, winner]))
      and (strtoint(sgTfinal.Cells[2, i]) > strtoint(sgTfinal.Cells[2, winner]))
        then winner:=i;
  lblWinner.Caption:='Le vainqueur est 1''quipe ' + inttostr(winner);
end;
end.
```