



```
unit Unit_cavalier;
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics,  
Controls, Forms, Dialogs, StdCtrls, ExtCtrls;
```

```
type
```

```
TForm1 = class (TForm)  
    im: TImage;  
    ed_depart: TEdit;  
    liste_arrivee: TListBox;  
    b_sauts: TButton;  
    procedure FormCreate(Sender: TObject);  
    procedure b_sautsClick(Sender: TObject);  
    procedure imMouseDown(Sender: TObject; Button:  
TMouseButton;  
    Shift: TShiftState; X, Y: Integer);  
    private  
        { Déclarations privées }  
    public  
        { Déclarations publiques }  
    end;
```

```
var
```

```
Form1: TForm1;
```

```
implementation
```

```
{ $R *.dfm }
```

```

procedure effacer_cases(im: TImage);
var i,j:integer;
begin
  for i:=0 to 7 do
    for j:=0 to 7 do begin
      if (i+j) mod 2=0 then begin
        im.Canvas.Pen.Color:=clWhite;
        im.Canvas.Brush.Color:=clWhite
      end
      else begin
        im.Canvas.Pen.Color:=clBlack;
        im.Canvas.Brush.Color:=clBlack
      end;
      im.Canvas.Rectangle(20+50*i,50*j,70+50*i,50+50*j)
    end
  end;

procedure TForm1.FormCreate(Sender: TObject);
var i,j:integer;
begin
  effacer_cases(im);
  im.Canvas.Pen.Color:=clBlack;
  im.Canvas.MoveTo(19,0);
  im.Canvas.LineTo(19,400);
  im.Canvas.LineTo(420,400);
  for i:=1 to 8 do begin
    im.Canvas.TextOut(5,422-50*i,IntToStr(i));
    im.Canvas.TextOut(-8+50*i,404,chr(64+i))
  end
end;

procedure sauter(i,j:integer; im:TImage; liste:TListBox);
var x,y:integer;
begin
  effacer_cases(im);
  liste.Clear;
  im.Canvas.Pen.Color:=clRed;
  im.Canvas.Brush.Color:=clRed;
  im.Canvas.Ellipse(-15+50*i,415-50*j,5+50*i,435-50*j);
  for x:=i-2 to i+2 do
    if (x>0) and (x<9) and (x<>i) then
      for y:=j-2 to j+2 do
        if (y>0) and (y<9) and (y<>j) then
          if abs(x-i)<>abs(y-j) then begin
            liste.Items.Append(chr(64+x)+IntToStr(y));
            im.Canvas.MoveTo(-5+50*i,425-50*j);
            im.Canvas.LineTo(-5+50*x,425-50*y);
            im.Canvas.Ellipse(-10+50*x,420-50*y,50*x,430-50*y)
          end
        end
      end;
    end;

```

```

procedure TForm1.b_sautsClick(Sender: TObject);
var co,li:integer;
    s:string;
begin
    s:=ed_depart.Text;
    if (length(s)=2) and (s[1] in ['A'..'H']) and (s[2] in
['1'..'8']) then begin
        co:=ord(s[1])-64; li:=StrToInt(s[2]);
        sauter(co,li,im,liste_arrivee)
    end
    else ed_depart.Text:=''
end;

```

```

procedure TForm1.imMouseDown(Sender: TObject; Button:
TMouseButton;
    Shift: TShiftState; X, Y: Integer);
var co,li:integer;
begin
    co:=(X+30) div 50; li:=8-Y div 50;
    if (co>0) and (li>0) then begin
        ed_depart.Text:=chr(64+co)+IntToStr(li);
        sauter(co,li,im,liste_arrivee)
    end
end;

end.

```