## How to swap two integers without using a temporary variable

You can exchange two integers without using a third temporary variable as follows, assuming *A* and *B* are integers with values assigned:

```
A := A + B;
B := A - B;
A := A - B;
```

To demonstrate this, drop two *TEdit* controls and one *TButton* on a form in a new Delphi VCL forms project and create an *OnClick* event handler for the button as follows:

```
procedure TForm1.Button1Click(Sender: TObject);
var
   A, B: Integer;
begin
   A := StrtoInt(Edit1.Text);
   B := StrtoInt(Edit2.Text);
   A := A + B;
   B := A - B;
   A := A - B;
   Edit1.Text := InttoStr(A);
   Edit2.Text := InttoStr(B);
end;
```

Now enter a numbers in both edit controls. Clicking the button should swap the numbers in the controls.

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