



# delphi

project development intermediate delphi course

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# Delphi Intermediate Chapter 8:

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## Standard Search:

Searching an array for a specific value is a far less complex procedure than sorting an array of data. However there is a basic logic that runs behind both tasks. The Standard Search code that I prefer to use as it is simple and will work efficiently when there is not large amounts of data to search through.

The following Delphi code will search an array for a specific value, either predefined by the user or the program itself:

```
Type
  TNames = Array[1..30] of string;

Var //Global
  Names: TNames;

Var //Local
  Search: String;
  Flag: Boolean;
  Loop: Integer;
Begin
  Loop:= 1;
  Flag:= False;
  Search:= inputbox('SEARCH ', 'Please Enter a name to Search:', Names[1]);
  While (flag = false) and (Loop <= Cnt + 1) do
    Begin
      If (lowercase(names[loop])) = (Lowercase(search))
      Then Flag:= true
      Else Inc(loop)
    End;
  If Flag = true
  Then PnlSearch.Caption:= ('Search For: ' + Names[loop]+ ' Returned a FOUND Outcome')
  Else PnlSearch.Caption:= ('Search For: ' + Names[loop]+ ' Returned a NOT FOUND Outcome')
```

## Notes:

This specific code however can't be used accurately when there is a double data entry e.g. Bill & Bill. In this case only the first entry would be found. This may or may not cause a problem depending what the program should do. The Standard Search code is also only suitable when small amounts of data are present.

# Delphi Intermediate Chapter 9:

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## Binary Search:

On the next tutorial we will cover the differences between a Standard Search and a Binary Search as well as when a Binary Search is most appropriate. Please download the next tutorial at: [Click Here!](#)