



Multidimensional arrays

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5D - Multidimensional Arrays (author: Tao Yue, state: unchanged)

You can have arrays in multiple dimensions:

```
type
  datatype = array (enum_type1, enum_type2) of datatype;
```

The comma separates the dimensions, and referring to the array would be done with:

```
a [5, 3]
```

Two-dimensional arrays are useful for programming board games. A tic tac toe board could have these type and variable declarations:

```
type
  StatusType = (X, O, Blank);
  BoardType = array[1..3,1..3] of StatusType;
var
  Board : BoardType;
```

You could initialize the board with:

```
for count1 := 1 to 3 do
  for count2 := 1 to 3 do
    Board[count1, count2] := Blank;
```

You can, of course, use three- or higher-dimensional arrays.



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