

Two-Dimensional Arrays

- To be precise, in Java a two-dimensional array is an array of arrays
- A two-dimensional array is declared by specifying the size of each dimension separately:

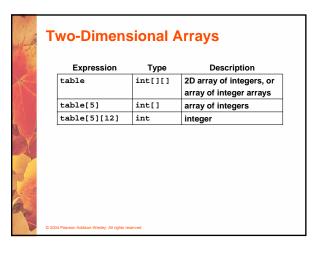
int[][] scores = new int[12][50];

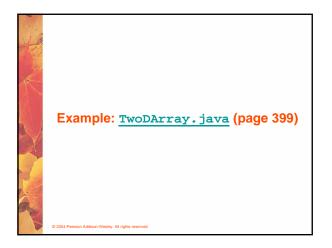
• A array element is referenced using two index values:

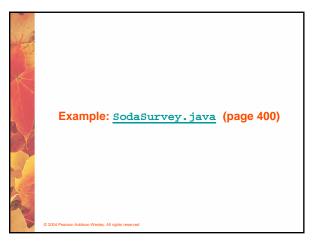
value = scores[3][6]

• The array stored in one row can be specified using one index

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Multidimensional Arrays

- An array can have many dimensions if it has more than one dimension, it is called a multidimensional array
- Each dimension subdivides the previous one into the specified number of elements
- Each dimension has its own length constant
- Because each dimension is an array of array references, the arrays within one dimension can be of different lengths
 - these are sometimes called ragged arrays

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