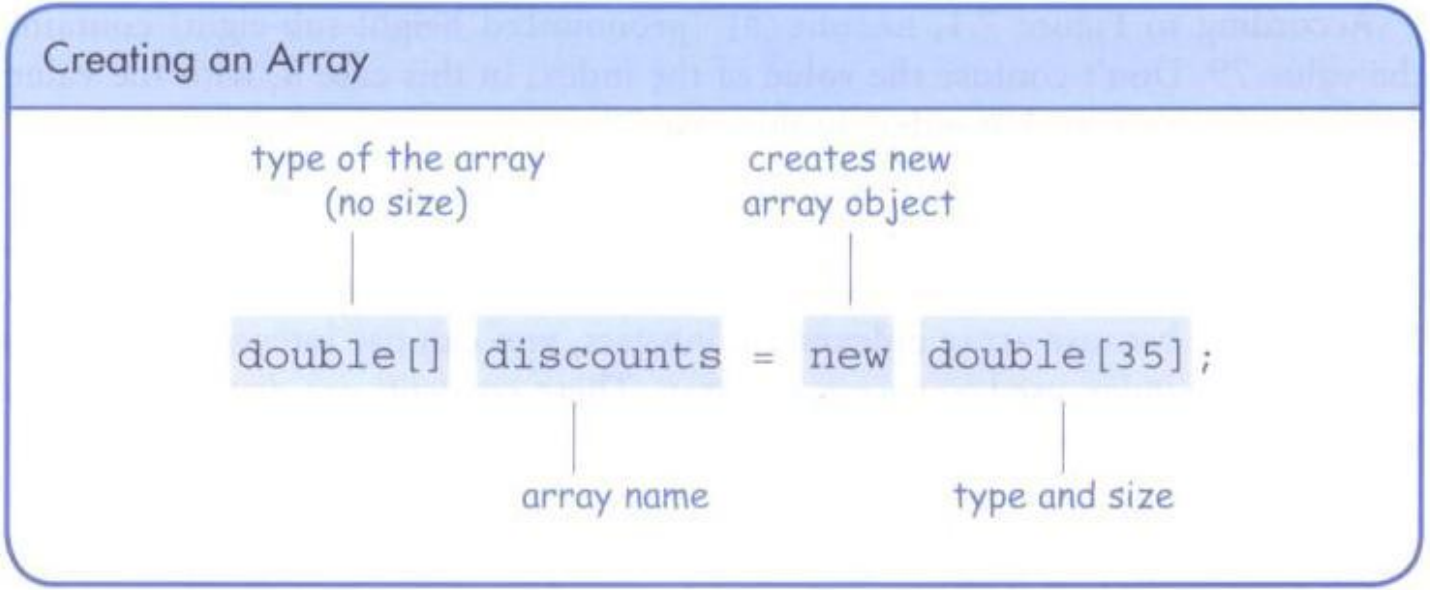
Data Structures Review
Array

COMP128 Data Structures

Declaring Arrays

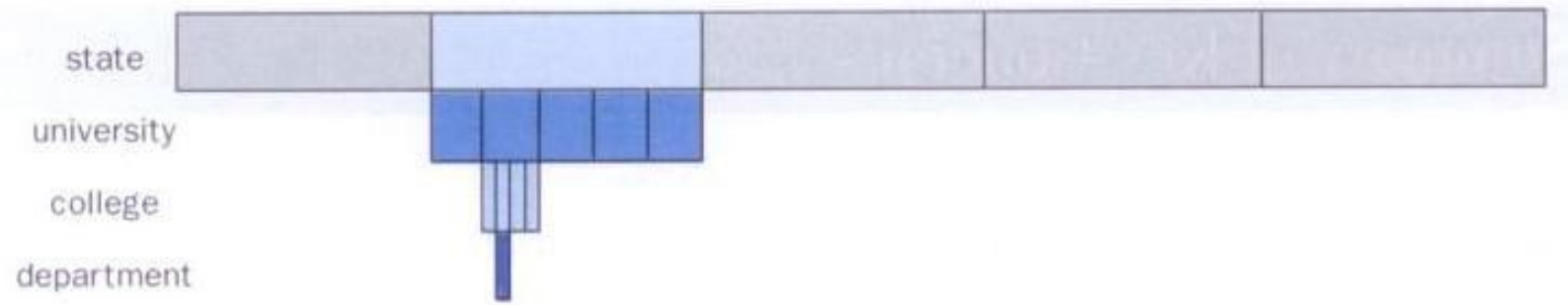


Two-Dimensional Arrays

Expression	Type	Description
`table`	`int[][]`	2D array of integers, or array of integer arrays
`table[5]`	`int[]`	array of integers
`table[5][12]`	`int`	integer

Multidimensional Arrays

- One way to visualize a four-dimensional array:



- Two-dimensional arrays are common, but beyond that usually an array has other objects involved

Command-Line Arguments

- The signature of the main method indicates that it takes an array of String objects as a parameter
- These values come from *command-line arguments* that are provided when the interpreter is invoked
- For example, the following invocation of the interpreter passes three String objects into main

```
> java StateEval pennsylvania texas arizona
```

- These strings are stored at indexes 0-2 of the array parameter of the main method