# Activities in Module 9

## Module 9: Arrays & Vectors

* ✓ Declare and initialize arrays
* ✓ Use looping to process arrays (print, sort, etc)
* ✓ Implement search Algorithms (min, max, etc)
* ✓ Learn about Two-Dimensional Arrays
* ✓ Learn about Multi-Dimensional Arrays
* ✓ Learn about Parallel Arrays

### Reading

Assignment Reading 9

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| --- | --- |
|  | Module 9: Arrays and Vectors 9.1 Array/vector concept (general) 9.2 Vectors 9.3 Array/vector iteration drill 9.4 Iterating through vectors 9.5 Multiple vectors 9.6 Vector push\_back 9.7 Vector resize 9.8 Loop-modifying or copying/comparing vectors 9.9 Functions with string/vector parameters 9.10 Swapping two variables (General) 9.11 Debugging example: Reversing a vector 9.12 Arrays vs. vectors 9.13 Two-dimensional arrays 9.14 Range-based for loop 9.15 C++ example: Annual salary tax rate calculation with vectors 9.16 C++ example: Domain name validation with vectors 9.17 C++ example: Employee list using vectors |

Table of Activities

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| --- | --- | --- |
| Activity Name | Points Possible | Meets Competency |
| Reading 9 | 169 |  |
| Array Temperature: Vector | 100 | 6.1 |
| Monkey Businesses: Two-Dimensional Array Assignment | 100 | 6.2 |