

EECS3101 (Section E) Summer 2026
Tutorial 1
2D Arrays: Syntax & Motivating Example

Chen-Wei Wang

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No Submission Required: Complete for Learning & Test Prep

Consider a table of distances between seven cities:

	Chicago	Boston	New York	Atlanta	Miami	Dallas	Houston
Chicago	0	983	787	714	1375	967	1087
Boston	983	0	214	1102	1763	1723	1842
New York	787	214	0	888	1549	1548	1627
Atlanta	714	1102	888	0	661	781	810
Miami	1375	1763	1549	661	0	1426	1187
Dallas	967	1723	1548	781	1426	0	239
Houston	1087	1842	1627	810	1187	239	0

As part of the program for an airline reservation system, the **distance of a trip** with **multiple stop-overs** is to be calculated in order to accumulate the milage of frequent flyers.

e.g., A trip {**Boston, Chicago, Miami, Houston**} takes
 $983 \text{ (B-to-C)} + 1375 \text{ (C-to-M)} + 1187 \text{ (M-to-H)} = 3545 \text{ miles}$

Question & Exercise: How do you manipulate such information in Java?