Multi-Dimensional Arrays

C#

Single-Dim Arrays

› Group of multiple rows; each row contains a single value.

		array
i = 0	a[0]	value0
i = 1	a[1]	value1
i = 2	a[2]	value2
i = 3	a[3]	value3
i = 4	a[4]	value4

Multi-Dim Arrays

› Group of multiple rows; each row contains a group of values.

	[Column 0]	[Column 1]
[Row 0]	{ value1,	value2 }
[Row 1]	{ value1,	value2 }
[Row 2]	{ value1,	value2 }
[Row 3]	{ value1,	value2 }
[Row 4]	{ value1,	value2 }

What

› Stores elements in rows & columns format.

› Every row contains a series of elements.

› You can create arrays with two or dimensions, by increasing the no. of commas (,).

	[Column 0]	[Column 1]
[Row 0]	{ value1,	value2 }
[Row 1]	{ value1,	value2 }
[Row 2]	{ value1,	value2 }
[Row 3]	{ value1,	value2 }
[Row 4]	{ value1,	value2 }

Multi-Dim Array

type[,]   arrayReferenceVariable = new type[rowSize, columnSize];